RAILWAY AGE weekly

INDEX

One Hundred and Fifty-Fourth Quarto Volume

January 1, 1963 to June 30, 1963

One Hundred and Eighth Year, First Half

Authors						,	*				*	page	2
General Index			*					*	*			page	2
Current Publications							*	*				page	13
People in the News												page	13

JAMES G. LYNE, Editor ROBERT G. LEWIS, Publisher LUTHER S. MILLER. Executive Editor

• Chicago 2, 22 W. Madison St.

Western Editor ... John D. Mitros
Regional News ... David Thaler
Mechanical ... Norman E. Gillespie
Engineering ... M. H. Dick
R. E. Dove E. W. Hodgkins, Jr.
Purchasing & Stores ... William V. Quite
Editorial Assistant ... Wanda Brown

• Washington 4, National Press Bldg. Washington Editor Walter J. Taft London, W. 1, England,
 63/65 Piccadilly

International Editor......Paul Goldsack

JOE W. KIZZIA, Contributing Editor

Advertising Sales Department

Duane C. Salisbury—director of sales

New York 7, N. Y., 30 Church St.,

WOrth 4-3060 J. S. Vreeland—vice president; W. A. Cubbage J. E. Rogers

Chicago 2, III., 22 W. Madison St. RAndolph 6-0794 J. R. Thompson—vice president;

K. F. Sheeran—regional vice president;
G. W. Ballinger

Cleveland 15, Ohio, 1501 Euclid Ave., MAin 1-4455

H. H. Melville—vice president; C. J. Fisher—district manager

Pittsburgh 19, Pa., Suite 203, Carlton House GRant 1-8186 C. J. Fisher—regional vice president Atlanta 9, Ga., 22 Eighth St., N. E., TRinity 2-6720—J. S. Crane

Dallas 19, Tex., 3915 Lemmon Ave., LAkeside 1-2322—Joseph Sanders

Los Angeles 17, Cal., 1336 Wilshire Blvd. HUbbard 3-8414—Fred Klaner, Jr.

San Francisco 11, Cal., 916 Kearny St. GArfield 1-7004—Lewis Vogler & Co.

London S. W. 1, England
TRAfalgar 6318
67/68 Jermyn St., St. James's
Max F. Holsinger; Ian Goulden;
A. T. Chapman-Purchas; John Thornton

Harrogate, Yorkshire, England Harrogate 69212—P.W.B. King 11 Tewit Well Road

Dusseldorf, Germany Huttenstrasse 17

Huttenstrasse 17 Max F. Holsinger; G. W. Rohde; E. Hillerbrand; Herbert Maibt

Tokyo, Japan Sun Gain Shia, Ltd. Shiba Nikkats Bldg. 13, Shiba Park, Minato-Ku

C. H. Yiu, Managing Director

Editorial and Executive Offices: 30 Church St., New York 7, N.Y.

Railway Age, established in 1856, is indexed by the Business Periodicals Index, the Engineering Index Service and the Public Affairs Information Service. Name registered in U. S. Patent Office

and Trade Mark Office in Canada. Published weekly, except the last week of December, by the Simmons-Boardman Publishing Corporation at 440 Boston Post Road, Orange, Conn.

AUTHORS

Arnold, Grant, Apr 22 p 34 Arpaia, Anthony F., Mar 4 p 28 Aydelott, G. B., Feb 25 p 17

Barriger, John W., Feb 4 p 21 Barton, Frank L., Feb 4 p 11; Feb 11 p 19; May 20 p 56

56
Beets, R. H., May 13 p 28
Beerry, Arthur L., Feb 4 p 11
Bertrand, Charles E., Mar 4 p 38
Beschew, Boria, Apr 1 p 38
Breithaupt, Harry J., Jan 7/14 p 128
Broker, Thomas O., May 6 p 47
Brosman, D. W., Jan 7/14 p 128; Jan 28 p 10, p 50;
May 6 p 38; May 27 p 82
Budd, John M., May 27 p 82

Cannon, John D., Feb 25 p 52 Clark, Noel A., May 27 p 13 Combes, C. L., Jan 7/14 p 26 Cottrell, W. F., June 24 p 86 Coulter, J. Russel, Apr 1 p 29 Crawford, Gail H., May 27 p 13 Cripe, Alan R., June 3 p 33 Crump, N. R., Apr 8 p 72; May 6 p 47

Davis, D. C., June 3 p 34
Day, J. Edward, Mar 25 p 84
Dick, Merwin H. Jan 7/14 p 34
Douglas, Paul, May 13 p 37
Duke, Paul R., May 6 p 45
Dullard, R. J., May 6 p 45
Dusenbury, George, Apr 29 p 67; May 27 p 16

Ellis, H. S., Apr 15 p 40 Ellis, J. V., May 6 p 40

Fante, T. A., Feb 4 p 11
Fielding, A. M., Mar 25 p 83
Fisher, Earl H., Feb 16 p 56
Forgash, Morris, Feb 4 p 10; May 6 p 45; May 27 p 80
Franco, Nobert J., May 13 p 11
Frants, Welby M., Feb 4 p 8
Frechette, R. P., Mar 4 p 26

Gaul, David Q., Apr 1 p 36 Gellman, Aaron J., Mar 11 p 48; Apr 8 p 21 Glacy, G. F., May 20 p 54 Green, Ralph J., Jr., Mar 25 p 81

Green, Raiga J., Jr., mar 25 p 81
Hardenburg, R. E., Mar 25 p 81
Hargrove, J. W., June 3 p 31
Harris, Oren, Apr 1 p 34
Heavey, J. J., May 20 p 41
Heineman, Ben, Apr 22 p 24; Apr 29 p 69; May 27 p
80, June 24 p 89
Betiner, A. P., Feb 11 p 19
Heinestag, Carl, Jr., May 27 p 81
Hermann, H. C., Apr 22 p 28
Hermann, H. C., Apr 22 p 28
Ernes, J. H., May 8 p 23
Eines, C. M., May 8 p 23
Eines, C. M., May 8 p 39
Hodson, Gardner G., Jan 7/14 p 23
Hudson, Gardner C., Jan 7/14 p 21
Hulse, H. K., Mar 18 p 18
Hutchinson, Everett, Feb 18 p 10

Iovin, P. J., May 6 p 40

Jessen, V. T., Mar 16 p 16 Johnson, R. Ellis, Mar 25 p 84 Johnson, William B., Jan 28 p 17; May 20 p 45; May 27 p 82; June 17 p 49 Johnston, Wayne A., June 17 p 13

Kahn, George N., Mar 18 p 12 Karvwatt, Robert C., Apr 8 p 53 Katz, Sol, June 24 p 19 Kneiling, John G., Jan 28 p 50 Koerber, Dwight L, May 27 p 84 Kohl, John C., June 3 p 13 Krumbein, Eliezer, Apr 22 p 31; June 3 p 38

Arumovin, Eliezer, Apr 22 p 31; June 3 p 38

Lacoste, Louis, Apr 22 p 16

Langdon, Jervis, Jr., Jan 21 p 32; Mar 18 p 32; Apr 8 p 71; June 17 p 53

Large, Henry W., June 10 p 48

Lawson, Kenneth D., May 20 p 13

Leighty, G. E., Apr 20 p 10, p 66

Lewis, Robert G., Jan 7/14 p 122; Apr 22 p 25; May 6 p 13; May 20 p 24; June 17 p 50

Lewis, Sheldon R., Feb 4 p 8

Lich, R. L., May 6 p 38

Lich, R. L., May 6 p 38

Lichestall, Oscar W., June 10 p 47

Loomis, Daniel P., Jan 21 p 9; Jan 28 p 55; Apr 29 p
66

Luna, Charles, Feb 4 p 12

Luna, Charles, Feb 4 p 12 Lyne, James G., Jan 7/14 p 53; June 17 p 50 (See also Railroading After Hours)

Railroading After Hours)

Mackie, David L, June 17 p 35

Magee, G, M., Mar 11 p 16; June 3 p 18

Martin, C. D., Jr., Feb 18 p 31

Martin, Eldon, June 10 p 40

Mathews, Harry O., Feb 18 p 30

McCarter, Walter J., Feb 18 p 21

McColloupf, John E., May 6 p 45

McGulloupf, John E., May 6 p 45

McGens, Patrick B., Apr 8 p 71

McKnight, Robert W., Jan 7/14 p 48; Jan 28 p 52; June 24 p 40

McLean, Harold H., Apr 29 p 70

McMenk, L. W., June 10 p 13

Meyer, George A., June 24 p 100

Milbourne, Roy L., May 6 p 46

Miller, Luther S., Feb 25 p 53

Mitros, John D., Jan 7/14 p 48; Feb 4 p 12; Feb 11 p

Monroe, J., Elzaer, Jan 7/14 p 87

Morriey, G. J., Feb 25 p 69

Morrie, L. Sewell, May 20 p 96

Nalviger, Carl A., Mar 25 p 21

Nawaiger, Carl A., Mar 25 p 21 New-Il, James P., Feb 4 p 3

Osborn, P. F., May 27 p 80 Owen, R. J., June 24 p 16

Palmer Dwight, May 20 p 13 Farks & W. Apr 22 p 25 Peder sea, L. May 20 p 41 Peronto, Fred, Jan 28 p 53

Phillips, C. W., Mar 25 p 80 Pier, J. R., May 6 p 39 Plant, J. W., Mar 18 p 16 Provo, Larry S., May 13 p 18

Quinn, William J., June 3 p 36

Rainie, Harrison M., Feb 11 p 36 Rettinger, Donald H., Apr 22 p 26 Roberts, Merrill J., Apr 15 p 40 Roddewig, Clair M., May 27 p 82; June 10 p 48 Rosenblum, Victor, June 4 p 86 Ryall, A. L., Mar 25 p 81 2 p 96 Ryan, Frank M., Apr 29 p 70 Ryan, William A., May 27 p 13

Sanders, Clinton L., Feb 18 p 32
Sanders, Harry A., Jan 28 p 36
Saunders, W. B., June 3 p 33
Schmidt, William H., Jr., June 17 p 49
Schumacher, K. Fritz, Mar 18 p 34
Schumarte, C. Peter, Feb 18 p 48
Schwartz, Louis A., Mar 25 p 21
Sigmon, Richard A., Feb 25 p 78
Sites, James N., Mar 4 p 27; June 24 p 100
Slay, G. B., Mar 18 p 16
Smith, R. T., Feb 11 p 22
Stahl, Richard, Jan 7/14 p 33
Stewart, John W., June 17 p 45
Stilwell, William P., Apr 22 p 25
Stokes, Donaid R., Mar 25 p 82
Strout, W. Jerome, May 20 p 56
Sturgeon, Charles H., May 6 p 48

Tack, Carl E., Mar 25 p 54
Taft, Walter J., Jan 7/14 p 31
Taball, Frank G., Mar 16 p 34
Taylor, William T., Feb 4 p 27
Terreil, R. L., May 27 p 81
Thomas, Charles A., Apr 15 p 16
Tucker, William H., Feb 18 p 58; May 20 p 58; June 17
p 10 Tucker, William H., Feb 18 p 10 Turner, E. W., Mar 25 p 80

Vietsch, Grant C., Apr 8 p 50

Wagner, Louis J., Feb 18 p 10

Wallace, J. E., May 6 p 36

Walrath, Laurence K., Feb 25 p 78; Mar 4 p 28; Mar 11 p 39; Apr 29 p 62

Welty, Gus, Jan 7/14 p 29; Feb 4 p 12; Apr 15 p 13; June 17 p 34

When-ler, Burton K., Feb 11 p 12

White, Alar M., Apr 1 p 27

Whitesett, W. Gavin, June 1 p 33

Williams, John B., Mar 25 p 34

Williams, John B., Mar 25 p 34

Williams, Edward W., May 27 p 82

Wirts, W. Willard, Feb 11 p 11

Wolfe, Janes E., Feb 4 p 9

Wright, E. W., June 24 p 16, p 70

Zimmerman, William A., Apr 8 p 55 Zitto, Fred M., Jr., Mar 4 p 36

GENERAL INDEX

*Illustrated; †Editorial; Letters from Readers

ACF Industries, Inc.:

Cars, 100-Ton Integral-Train Coal, June 24 p 52°
Earnings Growth Predicted, Feb 4 p 27
Earnings in Fiscal 1963, June 24 p 100
Gravity Discharge Gate Tested, Apr 22 p 34
Grit Blant Cleaners, Feb 4 p 20°
Study of Coal Requirements, June 24 p 52
Technical Center at St. Charles, Mo., Apr 8 p 68°
Abandonments:

Technical Center at R. Charles, Mo., Apr 8 p 88*
Abandonments:
Chicago North Shore & Milwaukee, Jan 28 p 12
Rutland, Stahus of, May 8 p 47
Accessorial Service Charges, RRs Cut Back Boosts
in, Jan 7/14 p 56; Feb 25 p 77
Accident Prevention:
Blue Flagging Protection for Car Inspectors, Apr 29
u 22

Hite Flagging Protection for Car Inspectors, Apr 29 p 22
Radar Proposed for Japanese High-Speed Line, Feb 4 p 36
Safety Flooring, Mar 25 p 78*
Safety Glasses, May 6 p 41
Safety Tool for Positioning Crane Loads, Apr 22 p 28*

Accident Statistics: Feb 25 p 78; Mar 25 p 84 Accidents: ICC Investigation of Truck-Train Grade Crossing Accidents; Proposed Report, May 27 p 9* Accidents: (Continued)

Passenger-Fatality Rate, Rail and Air, in 1962, Feb
25 p 10; Rail, Air and Bus, June 24 p 100
PRR "Baseball Special"; ICC Report, Feb 25 p 76
Truck Drivers Blamed for Collisions, Apr 15 p 40
(StL-SW); June 17 p 56 (SAL Silver Star)
Accountant's Role in Pricing RR Services, May 27 p 82
Accounting: Centralized Billing on P&LE, Apr 8 p 54
Accustor, Duff-Norton Mechanical, June 3 p 26*
Adhesive, Neoprene; Pittsburgh Plate Glass Co., June
24 p 93
Administrative Proceedings in 1962, Jan 7/14 p 101
Advertising. Advertising: ARAM Golden Spike Award, June 3 p 36; June 17 p

ARAM Colden Spike Award, June 3 p 36; June 1 1 49*
Expenditures for RRs and Other Industries Compared, June 17 p 50
Freight, May Move Into New Areas, June 17 p 49
GATC Features Wild Animais in, June 3 p 34*
RR, New Challenges Face, June 17 p 49*
Aeroquip Corp.:
Fueling System, Jan 21 p 22*
Hober Hose, Mar 11 p 41
Rgricultural Exemptions for Motor Carriers:
Bills for Removal of ICC Minimum Rate Powers
(See Minimum Rates Legislation)
ICC Opposes Deregulation, Jan 7/14 p 65

Agricultural Exemptions for Motor Carriers: (Continued) Survey of Exempt Truckers (Correction), Feb 18 p 48

Survey of Exempt Truckers (Correction), Feb 18 p
48
Agricultural Exemptions for RRs, Northwestern
Transportation Center to Recommend, Mar 4 p 25
Air Brake Train Line May be Used for Remote Control
of a Helper Locomotive, June 3 p ?
Air Compressors:
Ingersoll-Rand, May 27 p 76*
Westinghouse Air Brake, May 27 p 76*
Westinghouse Air Brake, May 27 p 76
Air Dryer-Receiver; Van Prod. Co., Jan 21 p 22*
Air Express Service Developments, Jan 28 p 20
Air Reduction Sales Co.: Welding Gun, Feb 4 p 25*
Air Rights:
CN Accepting Proposals for, Feb 25 p 78
IC to Consider Development of, June 17 p 14
Source of RR Revenue, May 27 p 33
Air Transport User Charges Urged by President Kennedy, Jan 21 p 12*
Air It's Mail to be Expanded, Mar 25 p 84
Airline Payments to Support Local Airports Compared
with CMStP&F Payments, Apr 15 p 30
Aitchison, Clyde B, Essay Contest, Jan 21 p 36
Ajax Consolidated Car Flooring, Mar 25 p 77*
Ajax-Consolidated Disposal Toilet, Feb 18 p 49*
Ajax-Consolidated Disposal Toilet, Feb 18 p 49*
Ajax-Consolidated Man Brake, Apr 1 p 25*
Akron, Canton & Youngstown Acquisition by N&W Approved by ICC Examiner, Apr 22 p 22

Alarm System; Lenkurt Elec. Co., Mar 4 p 29* Alaska RR.:

Alaska RR.:
Rates Under ICC Jurisdiction, May 6 p 7
Seattle-Alaska Hydro-Train Tariff, June 24 p 100
Alco Producta, Inc.:
Century Locomotive Series, Feb 4 p 16°; First Locomotives Delivered to E-L, June 10 p 20° UP to Test 5500-bp. Units, June 17 p 46°
E for Export Flag Awarded to, Apr 15 p 7
Earnings in 1962, Feb 25 p 76
Export Locomotive Market, Jan 7/14 p 28; Apr 22 p 34
Locomotives. Diesel-Hudraulis, for En. 20

34
Locomotives, Diesel-Hydraulic, for SP, Mar 18 p 7
Aldon Car Replacer, May 6 p 42*
Allied Chemical Corp.: Cylinder-Equipped Cars, Feb
11 p 14*
Allied Eng. & Prod. Corp.: Lifting Beam, Apr 29 p 55
Aluminum Bolted Bulkheads, Apr 22 p 28*
Aluminum Headend Cars; UP, Jan 21 p 16*; Correc-

Aluminum Headend Care; UP, Jan 21 p 16*; Correction, Feb 4 p 36
Aluminum in RR Uses, Market for, Jan 7/14 p 25
Aluminum Microwave Passive Reflector, Feb 18 p 50*
Aluminum Safety Tool, Apr 22 p 28*
Aluminum Tank Car for Sodium Chlorate, Feb 11 p 18*
Aluminum Tank-Hopper Cars, Mar 4 p 13*
Aluminum Tote Bins, Apr 29 p 26*
Aluminum Turbo-mixer, Feb 25 p 72*
American Air Filter Co. Patent Held Invalid, June 24
p 100
American Association of Railroad Superintendents

American Air Filter Co. Patent field Invalid, June 24 p 100
American Association of Railroad Superintendents Annual Meeting, June 10 p 24; June 17 p 53
American Brake Shoe Co.:
Executive Changes, Feb 4 p 29
Japanese Company Established, June 24 p 90
Welding Rods, Mar 18 p 28*
American Crane & Hoist Corp. to Build Monorail at New York World's Fair, May 13 p 40; June 3 p 17
American Lubricants Co.: Cement Additive, May 8 p 41*
American Optical Co.: Safety Glasses, May 6 p 41
American Photocopy Equip. Co.: Photocopy Unit, May 27 p 75
American Railway Development Association Annual

American Optical Co.: Safety Glasses, May 6 p 41
American Photocopy Equip. Co.: Photocopy Unit, May
27 p 75
American Railway Development Association Annual
Meeting, May 27 p 33
American Railway Engineering Association Business
Meeting, Mar 25 p 46*
American Railway Engineering Association Business
Meeting, Mar 25 p 46*
American Railway Magazine Editors Association:
Claim Prevention Campaign, Feb 4 p 36
American Railway Pagoress Exposition:
Exhibitors, Feb 11 p 23; Mar 18 p 24; Correction,
Apr 8 p 72; May 27 p 56*
Program, Feb 11 p 23; Apr 15 p 36; May 27 p 58*
American Railway Supervisors' Association Seeks
Wage Hike and Benefits, Apr 8 p 71
American Society of Mechanical Engineers Joint RR
Conference with IEEE, Feb 18 p 32; May 6 p 38
American Society of Training Directors: Railroad
Seminar, May 20 p 41
American Steel Foundries:
Six-Wheel Truck Nears Road Test, Mar 25 p 54*
"Way-Out" Research Conducted by, Mar 25 p 54
American Transportation Research Forum: Why Early
Mergers are Needed, Feb 4 p 32
American Trucking Associations:
'urcease in Intercity Truck Tonnage, Mar 18 p 36
Questions RR Position on Minimum Rate Regulation,
Jan 28 p 55
RCCC Public Relations Program, Mar 18 p 7
Seeks Merger Freeze and Investigation of RR Finances, Jan 28 p 55
Amoco Chem. Corp.: Tote Bins Solve Shipping Problems, Apr 29 p 26*
Anstel Industries, Inc.: Earnings Outlook, Apr 29 p 70
Antenna, Prodelin Radio, Feb 18 p 50
Antitrust Immunity in Mergers, Bill to Suspend, Mar
11 p 39; Mar 25 p 84
Antitrust Laws and the Minimum Rates Bill, Feb 18 p
30, p 31; Mar 11 p 44; Mar 18 p 26; May 6 p 10;
May 13 p 36; May 20 p 53; June 3 p 32; June 10 p
10; June 17 p 54
Antitrust June 3 p 36; May 20 p 53; June 3 p 32; June 10 p
10; June 17 p 54
Antitrust June 3 p 36; May 20 p 53; June 3 p 36; May 6 p 10;
May 13 p 36; May 20 p 53; June 3 p 36; May 6 p 10;
May 13 p 36; May 20 p 53; June 3 p 36; May 6 p 10;
May 13 p 36; May 20 p 53; June 3 p 36; May 6 p 10;
May 13 p 36; May 20 p 53; June 3 p 36; May 6 p 10;
May 13 p 36; May 20 p 53; June 3 p 36; Jun

Antitrus Suit Pied Against CMC, Jun 21 p 11
Arcade & Attica, Passenger Business Pays for, May
20 p 24
Arcadr Swivel Cable, Mar 4 p 30
Archer-Daniels-Middand Epoxy Liner, Feb 25 p 72*
Armo Steel Corp.:
Pre-Engineered Buildings, Mar 11 p 42*
Sleeve Coupling, Feb 11 p 29*
Armstrong Cork Co.: Flooring Tiles, Apr 1 p 25; Apr
29 p 56*
Associated Research Inc.: Portable Megohmmeter,
Apr 15 p 34*
Association Meetings, List of, Jan 21 p 26
Association of American Railroads:
Accounting Div.: Annual Meeting, Apr 29 p 69
Capital Expenditures in 1962, Apr 29 p 68
Car, 200-Ton Two-Unit Hopper, Jan 7/14 p 24*
Compulsory Arbitration Favored, Apr 15 p 37
Engineering Research, 25-Year Review of, Mar 11
p 16*
Equal Treatment in ICC Proposed Commodity Classical Control Contro

p 16*
Equal Treatment in ICC Proposed Commodity Classification Denied, Apr 1 p 10; May 13 p 40; Sought Again, June 10 p 46
Freight Claim Division:
Annual Meeting, June 10 p 47; June 17 p 52
Revises Claim Categories, Mar 25 p 21, p 22
Government Outlays for Transportation in 1963, Mar 18 p 10; Apr 1 p 38†
Legislative Program, Mar 4 p 10

Legialative Program, Mar 4 p 10

Mechanical Division:

Car-Design Rules; F. Peronto on, Jan 28 p 53

Hotbox Statistics, Jan 21 p 36; Feb 4 p 36; Feb 18 p 56; Apr 8 p 71; Apr 29 p 69; May 20 p 56

Journal Lubricator Approval Status, Feb 4 p 36

Loading Rules for Open-Top Trailers Being Formulated, Feb 18 p 56

TOFC Interchange Rules Revised, Jan 28 p 56

Types of AAR Approval, Jan 28 p 53

Minimum Rates Legialation Supported by, Mar 18 p 26; Apr 29 p 70

Per Diem, Graduated, Approved, Feb 18 p 30; Mar 11 p 10; Mar 25 p 9; May 13 p 38

Association of American Railroads: (Continued) Price Index, Jan 7/14 p 93; Feb 25 p 10; May 20 p 7 Purchases and Stores Div. Urges RR Suppliers to Actively Support RR Legislation, May 13 p 37; June 3 p 28

R Earnings in 1962 Resulting from New Deprecia-tion Guidelines and Tax Investment Credit, Mar 18 p 20

RK Earnings in 1962 Resulting from New Depreciation Guidelines and Tax Investment Credit, Mar 18 p 29
Seeks Permission for RRs to Transmit Public Telegrams Over Microwave Systems, Jan 21 p 36; Feb 11 p 36
Association of Railroad Advertising Managers:
Annual Meeting, June 17 p 49*
Golden Spike Award, June 3 p 36; June 17 p 49*
Association of Western Railways: J. A. Paddock Appointed Special Representative, Mar 18 p 29
Atchison, Topeka & Santa Fe:
Cars, Bi-and Tri-Level Auto, with Riveted Decks, Jan 7/14 p 118*
Champagne Dinner on "Super Chief", June 17 p 56
Injunction Bars BRT Strike, May 6 p 48
Merger Talks Planned with MP, June 10 p 46
Passenger Traffic Outlook, May 20 p 22
Plan V TOFC, Mar 4 p 36
Rail, Flamme-Hardened, Tested, Feb 4 p 18*
Seeks to Absorb GC&SF and P&SF, Feb 25 p 54
Atlanta Transit Developments, Feb 18 p 18, Description of Proposed System, June 3 p 14*
Atlantic Coast Line:
Citrus Shippers' Reaction to TOFC, Feb 25 p 62*
Earnings in 1962, Feb 11 p 36
LCL System Set Up, Mar 11 p 7
Merger with SAL, Mar 12 p 7; May 13 p 40
Passenger Station at Savannah, Apr 15 p 14*
TOFC Perishable Handling Problems, Mar 18 p 16
Atlantic States Shippers Advisory Board Officers, Jan 26 p 56
Atomic Power Plant Planned for New England, Jan 28 p 56
Automated Trains: (See also Locomotives; Remote

p 56 Automated Trains: (See also Locomotives; Remote

Automated Trains: (See also Locomotives; Remote Control Operation)
ASME-EEE Discussion of, May 6 p 38
Developments in 1982, Jan 7/14 p 48
Freight Trains, May 6 p 39
London Transport Board Tests, Apr 1 p 34
Subway Trains in Sweden, Feb 4 p 36
Automatic Elec. Co.: Answer-Only Set, Jan 21 p 21*
Automation (See Electronic)
Automobile-Rack Service:
AT63F Cars with Riveted Decks, Jan 7/14 p 118*
RRs Bound Back with, Apr 14 p 9*

Distinguished Nebraskan; C. M. Roddewig, Feb 4 p

30 Golder Spike; R. E. Omlor, Feb 11 p 19 Golden Spike (ARAM); SKF Industries, June 3 p 36; June 17 p 48* Locomotive Fireman of 1962; W. R. Bennett, Apr 8

p 72
Powell; J. M. Symes, Mar 25 p 84
President's "E" Flag; C&NW, Jan 7/14 p 126; Jan 28 p 54; Alco Prod., Apr 15 p 7
Selay; A. G. Anderson, Jan 28 p 58; Feb 4 p 10
Spel y; L. J. Hibbard, Jan 28 p 58; Axie D.: Wo System: Westinghouse Elec. Corp., Jan 7/14 p 20*
Axie Problems and Solutions Discussed at International Wheel Sets Congress, May 13 p 26

Baggage Carts at Grand Central Terminal, Apr 22 p 7 Bags, Chase Plastic Shipping, Feb 25 p 71*; Mar 25 p 7!* Ballawin-Lima-Hamilton Tricycle Crane, Jan 28 p 42* Ballantine, P., & Sons: Rubber Dunnage Helps Cut Damage Claims, Apr 29 p 24 Ballast Maintenance Car; Fairmont Ry, Motors, Mar 11 n 40;

Ballantine, P., & Sons: Rubber Dunnage Helps Cut
Damage Claims, Apr 29 p 24
Ballast Maintenance Car; Fairmont Ry. Motors, Mar
11 p 40*
Baltimore & Ohio:
"Capitol Limited"; 40th Auniversary, May 20 p 56
C&O Control Approved by ICC, Jan 7/14 p 78; Feb
11 p 9* Mar 4 p 36; Apr 1 p 10
Detroit-Toledo Passenger Operations Abandoned,
Feb 25 p 76
Freight Schedules, High-Speed, Jan 28 p 43*
Hit by Floods, Mar 25 p 56
Rehabilitation Program, Feb 11 p 9*
Reports 1962 Net Income, Jan 21 p 7
Study of Reading Relationship to, May 13 p 7
Timetable, Combined B&O-C&O, June 17 p 56
TOFC Revolution on, June 24 p 70*
TOFC Section Created, Mar 25 p 58, p 50*
Baltimore Transit Developments, Feb 18 p 18
Batteries:
Communications; C&D Batteries, Mar 18 p 28*
Motive Power; Exide, Apr 15 p 34*: May 27 p 75*
Sealed Lead-Acid; Exide, Apr 15 p 34*: May 27 p 75*
Sealed Lead-Acid; Exide, Apr 15 p 36*
Battery Chargers:
Electric Autolite Co., May 6 p 41*
Fansteel Metallurgical Corp., Feb 4 p 26*
Gould-National, Jan 28 p 41; Apr 22 p 27
Motor Appliance Corp., June 3 p 26*
Beam, Lifting; Allied Eng. & Prod. Corp., Apr 29 p 55
Bearings (See Roller Bearings)
Beeching Report on Reshaping of British Railways,
Apr 15 p 31
Bell System Teletypewriters, June 10 p 41*
Belt Railway of Chicago:
Headquarters Moved, June 17 p 56
Strike by BRC Barred, June 10 p 48
Berman Leasing Co.: Lease of Trailers and M/W
Equipment Increases, Jan 21 p 36
Best Universal Lock Co.: Car Seal Padlock, Apr 1 p
25*
Bethlehem Steel Co.; Guard Rall Chocks, Feb 18 p 50*
Better Finishes & Coatnags Co.; Adhesive Glazing.

25*
Bethlehem Steel Co.: Guard Rail Chocks, Feb 18 p 50*
Better Finishes & Coatings Co.: Adhesive Glazing,
Apr 8 p 95
Billing, Centralized, on P&LE, Apr 8 p 54
Billing, How IC Modernized, Apr 29 p 58*
Binks Mfg. Co.: Spray Painting Unit, Apr 22 p 27

Black & Decker Fower Tools, Apr 29 p 55
Black, Sivalis & Bryson: Plantic Tank for Tank Car,
Apr 8 p 34,
Blue Flaggide
Bollers, Electrice Bison Yard, Apr 29 p 22
Boller, Water-Tube; Vapor Corp., Feb 18 p 48*
Bollers, Electrice Boller Corp., Apr 22 p 27
Bolts (See Fasteners)
Boston & Maine:
Car Identification System Tested, Mar 25 p 40*
Federal Mass Transport Experiment, Jan 28 p 54;
Mar 4 p 19
Industrial Development Activities, Apr 1 p 36
Seeks Inclusion in PRR-NYC or New-NYC&StL
Mergers, Feb 18 p 55; Apr 1 p 10; Apr 8 p 71
Boston Transit Developments, Feb 18 p 18
Boston-Washington Transportation Study, Richardson
Diworth Named Chairman of, June 3 p 13
Brakes, Hand:

Brakes, Hand: Ajax-Consolidated, Apr 1 p 25° Union Asbestos & Rubber Co., Feb 18 p 49° Branford Pneumatic Vibrators, Apr 1 p 25 Bridges: Chicago Skyway Toll Bridge in Trouble, June 17 p 56

Bridges:
Chicago Skyway Toll Bridge in Trouble, June 17 p
56
Culverts Replace Arches; C&O, May & p 22*
PRR Bullds Bridge on Ground, Apr 22 p 14*
British Railways:
Automatic Car Identification, Jan 21 p 36
Beeching Report on Reshaping of, Apr 15 p 31
Design Panel Exhibition, May 27 p 17
Liner Trains Proposed, Apr 15 p 32
"Pay-as-You-Ride" Plan, Apr 8 p 72
Southern Region World's Busiest Line, Mar 25 p 64
Brookhaven National Laboratory: Radioactive Waste
Gets a Safe Ride to Burial, May 27 p 18*
Brotherhood of Locomotive Engineers:
Centennial of, May 6 p 14*, p 50; May 13 p 37
Strike Threat on TRRA, Feb 16 p 10
Wage and Fringe Benefit Demands, Mar 25 p 7
Brotherhood of Locomotive Firemen & Enginemen:
Barred from Striking Southern, Feb 4 p 9; Court
Ruling, May 20 p 55
Bennett, W. R., Fireman of 1962, Apr 8 p 72
Brotherhood of Railroad Signalmen: Wage Demands,
Mar 4 p 7; June 3 p 7
Brotherhood of Railroad Signalmen: Wage Demands,
Mar 4 p 7; June 3 p 7
Brotherhood of Railroad Trainmen:
AT&SF Strike Barred by Injunction, May 6 p 48
Interview with Charles Luna, Feb 4 p 12*
Monon Strike Threat, Feb 11 p 11, Feb 18 p 10
To Push Wage Demands, Feb 4 p 12
Brotherhood of Railway Clerks:
Dennis, C. L., Succeeds G, M. Harrison as Grand
President, May 27 p 82
Injunction Bars Strike Against Belt Ry, and C&WI,
June 10 p 48
SP Job Security Case, Jan 7/14 p 122; Mar 25 p 56;
Apr 1 p 12; June 3 p 7
Wage and Fringe Benefit Increases Called for, June
3 p 36
Brush Cutters:
Fairmont Ry, Motors, Mar 1* p 40*
International Harvester Co. Mar 18 p 27*
Bucket Caterolliar Multi-Purcose. Feb 4 p 25*

Fairmont Ry. Motors, Mar 1'. p 40* International Harvester Co... Mar 18 p 27* Bucket, Caterpillar Multi-Pu.pose, Feb 4 p 25* Budd Co.;

Bucket, Caterpillar Multi-Purpose, Feb 4 p 25°
Budd Co.:
Commuter Cars for PRP and Reading, Mar 11 p 48;
May 6 p 34°
Railway Div. in Strong Position, May 6 p 48
Rapid Transit Car Market, Jan 7/14 p 126
Budgets for M/W Equipment, How to Pian, Mar 4 p 22
Bulgets for M/W Equipment, How to Pian, Mar 4 p 22
Bull Commodities Exemptions:
Bulls Commodities Bandling, Cars for, Jan 7/14 p 24°
(AAR 200-Ton Proposed Two-Unit Hopper); Jan 21 p 19° (Trough-Hatch Covered Hopper); Feb 11 p 14° (Cylinder-Equipped, for Space-Age Gas);
Mar 4 p 13° (Aluminum Tank-Hopper); Mar 18 p 18° (Southern Quad-Fod Tank)
Bulkheads, Bolted; Evans Prod. Co., Apr 22 p 28°
Burqen of Proof in Cases Involving Suspended Initial Rates of Carriers, ICC Determination as to Who Has, June 24 p 10 Burnisher, Pocket; Jonard Int'l. Corp., June 24 p 94
Bustin Steel Prod.: Safety Flooring, Mar 25 p 78°

C

CåD Batteries: Communications Battery, Mar 18 p 28* CåS Products: Cable Encapsulation, Mar 18 p 27* CBS Survey of Chicago Commuters, May 13 p 18 Cable, Arcair Swivel, Mar 4 p 30 Cable, Arcair Swivel, Mar 4 p 30 Cable Encapsulation; CåS Products, Mar 18 p 27* Caboose Cars, Variations in Names for, June 17 p 35 Cady Metal Fabricating, Inc.: Hoist Attachment for Fork Lift Trucks, Feb 25 p 71* Caingras and Film Modernize IC Billing, Apr 29 p 58* Cambras and Film Modernize IC Billing, Apr 29 p 58* Cambras and Film Modernize IC Billing, Apr 29 p 58* Cambras and Film Modernize IC Billing, Apr 29 p 58* Cambras Apr 20* Cambras and Film Modernize IC Billing, Apr 29 p 58* Cambras Apr 20* Cambras Apr 20* P 58* Cambras P 58* Cambra

amloc Fastener Corp.: Tension Latch, Feo 20 p 1sanada:
Freight Car Loadings, Jan 7/14 p 12; Jan 21 p 31;
Jan 28 p 51; Feb 4 p 31; Feb 11 p 31; Feb 18 p 51;
Mar 4 p 31; Mar 18 p 31; Apr 1 p 31; Apr 8 p 67;
Apr 15 p 35; Apr 2 p 29; Apr 2 p 65; May 6 p 43;
May 13 p 35; May 20 p 51; May 27 p 77; June 3 p
31; June 10 p 43; June 24 p 95
Gaspe Peninsula Rail Line Planned, Mar 11 p 7
RRs to Load U.S.-Owned Box Cars Fitted with Damage-Prevention Devices, Feb 11 p 36; CIT League
Questions Charge for, Mar 4 p 36
Research and Development Needed, Feb 18 p 56
Subsidies for RR Losses on Uneconomic Branch
Lines planned, Mar 18 p 36

Canadian Industrial Traffic League:
Annual Meeting; Officers, Mar 4 p 34
Traffic and Transportation Conference, Mar 4 p 34
Canadian National:
Air Rights Proposals Sought, Feb 25 p 78
Cars, Canvas-Covered Gondola, Mar 11 p 48
Cars, Mechanical Refrigerator, Leased to Handle
Frozen Foods, Jan 7/14 p 128
Container Service Expanded, Apr 29 p 70
Direct Dial Telephone Facilities, Jan 21 p 36
Great Stave Lake Line, Apr 1 p 32; Apr 6 p 67;
June 10 p 43
Maritime Express and LCL Shipments Speeded up,
June 10 p 48
Officers to Inspect USSR RRs, Feb 25 p 7
Showcase Opened in Montreal, Mar 4 p 34*
Substituted Highway Service, Jan 28 p 7
Thrifti-Fare Plan, May 13 p 40
Canadian Pacific:
Car, Passenger, Converted for Sales Meeting Tour,
Apr 29 p 70
Cars, Box, Made Available for Unrestrictive Loading in U.S., Apr 8 p 10
Locomotives, Higher Horsepower, Apr 15 p 40
Track Relocation in Calgary Planned, Apr 22 p 34
Capital Expenditures:
Communications; Estimate for 1963, Jan 7/14 p 48
Estimates for 1963, Jan 7/14 p 33; Apr 1 p 9; June 17 p 7
Signaling; Estimate for 1963, Jan 7/14 p 48
Yeare 1953-62, Jan 7/14 p 94; Chart p 95*

Signaling; Estimate for 1963, Jan 7/14 p Years 1953-62, Jan 7/14 p 94; Chart p 95

Signaling: Estimate for 1970, was 1, 12 grant p 95*
Car Building Industry:
Effect of Variable Per Diem on, Apr 29 p 36
In Middle of Car Supply Situation, Apr 8 p 19, p 22*
Outlook for 1963, Jun 7/14 p 23*; Mar 4 p 9; Apr 6 p 18*
Car Checking System; Bison Yard, Apr 29 p 21*
Car Cleaning System, Mobile; Soo Line, Jan 28 p 29*
Car Identification Systems, Automatic:
Boston & Maine, Mar 25 p 40*
British Rys., Jan 21 p 36
Developments in U.S., Jan 28 p 52
Economics of, June 24 p 40*
Manufacturers of Proposed Systems, June 24 p 42
Car Repairs (See Maintenance of Equipment; Shops)
Car Replacer, Aidon, May 6 p 42*
Car Reporting Systems:
GN Uses ERPC Format, Apr 8 p 55
IC Speeds Up, Apr 29 p 58
TRRA-Minneapolis Honeywell Computer Center
Tests, June 17 p 27*
Car Retarders: Electronic Distance-to-Coupling Control.

rests, June 17 p 27°
Car Retarders: Electronic Distance-to-Coupling Control, Apr 29 p 22
Car Seal Padlock; Best Universal Lock Co., Apr 1

Tests, June 17 p 27*
Car Retarders: Electronic Distance-to-Coupling Control, Apr 29 p 22
Car Seal Padlock; Best Universal Lock Co., Apr 1
p 25*
Car Stapply, Freight:
Better Car Placing is SW Board Goal, June 3 p 34
Better Compliance with AAR Quota Orders Called
for, Mar 18 p 36
CPF Makes Box Cars Available for Unrestricted
Loading in U.S., Apr 8 p 10
Deliveries: December, Jan 28 p 51; January, Mar 4
p 31; February, Apr 1 p 31; March, Apr 29 p 65;
April, June 3 p 31
Installations, 1953-62, Jan 7/14 p 96
ICC Service Order 939 Revised, Feb 11 p 36; Service
Order 943, May 13 p 40; RRs Penalized for Violations, June 3 p 29
Market for King-Size Auto-Parts Cars, June 3 p 9*
MP Orders Box Cars in Mexico, Mar 18 p 10
On Order: January 1, Jan 28 p 51; February 1, Mar
4 p 31; March 1, Apr 1 p 31; April 1, Apr 29 p 65;
May 1, June 3 p 31
On Order: End of Years 1983-62, Jan 7/14 p 96
Orders: December, Jan 28 p 51; January, Mar 4 p
31; February, Apr 1 p 31; March, Apr 29 p 65
April, June 3 p 30
Orders in 1962, Jan 7/14 p 106, 108
Orders in 1963, Outlook for, Jan 7 B p 20
Ownership, 1953-62, Jan 7/14 p 96
RRs Misjudged in Car Acquisitions, Apr 1 p 29;
Ray Misjudged in Car Acquisitions, Apr 1 p 30
Shortages; Shipper Boards' Comment, Apr 8 p 16
Special Report on, Apr 8 p 16*
Car Supply, Passes, Jan 7/14 p 106
Orders in 1962, Jan 7/14 p 106
Orders in 1963, Jan

OX:
Auto Parts, King-Size Cars for, June 3 p 9*
CB&Q, with Foamed-in-Place Insulation, Mar 11
p 12*
Du Pont All-Door, for Yarns, Feb 18 p 34*
Hydroframe-60 Cars Found Safe in ICC Proposed
Report, May 13 p 9*
Southern 50-Ft. Cushion Underframe, May 27
p 18*

SP Hy-Cube Hydra-Cushion, May 13 p 12* Transportation Specialties Co. All-Steel, Mar 25 p 77*

Cars, Freight: (Continued) urs, Freight: (Continued)
Design Rules; F. Peronto on, Jan 28 p 53
Design Trends, Jan 7/14 p 23*
Design Trends, Jan 7/14 p 23*
Design Trends, Jan 7/14 p 23*
Designs of Tomorrow: Here Today, Apr 8 p 22*
Flat:
AT&SF Bi-and Tri-Level Auto, with Riveted
Decks, Jan 7/14 p 118*
Auto-Rack, Number in Service, Apr 15 p 9
CREAP Articulated, Mar 4 n 27

CRI&P Articulated, Mar 4 p 27 NP 'A-Frame', for Lumber, Mar 11 p 15' Gondola, CN Canvas-Covered, Mar 11 p 48 High Capacity Trend, Jan 7/14 p 24

ign Capacity Trend, Jan 7/14 p 24 opper:

ACF, for Integral Coal Trains, June 24 p 52*

G&W, with Sliding Roots; Apr 1 p 21*

L&N, for Integral Coal Trains, Apr 29 p 62*

N&W, for Integral Coal Trains, May 13 p 14*

P-8 Trough-Hatch Covered, Jan 21 p 19*

Tank-Type; Dow Chem. Co., Mar 4 p 13*

200-Ton Articulated, Proposed by AAR, Jan 7/14

p 24*

ignyback (See Flat)

p 24°
Piggyback (See Flat)
Refrigerator, Mechanical:
Number of RR-Owned, Mar 25 p 80
PFE, with 4000-Cu. Ft. Capacity, Apr 15 p 12°
Specialized, Outlook for, Jan 7/14 p 23
Stock, CBéQ Double-Deck, Feb 4 p 33°

Aluminum, for Sodium Chlorate, Feb 11 p 18* Cylinder-Equipped; USS-Allied Chem. Corp.,

Cylinder Sugarpeet, Sessitive Casm. Corp., Fe 11 p 14° GATC 20,000-Gal., for Wins, Apr 29 p 24° Non-Metal, Impact-Tested, Mar 4 p 7 North American Car 22,500-Gal. Plastic, Apr 8 p 34°

Southern Quad-pod, Mar 18 p 18* Union Tank Car 50,000-Gal., Apr 22 p 12*

Union Tank Car 50,000-Gal., Apr 22 p 12°
Cars, Passenger:
Boston MTA Rapid Transit, Mar 4 p 16°
Box-Express, Largest; MP, Feb 11 p 13°
CTA New Cars to Have Eye Appeal', Apr 1 p 18°
Commuter, for PRR and Reading, May 6 p 34°
NYNH&H Car Lease Plans, Feb 18 p 55; May 20 p 24
Rapid Transit, Billion-Dollar Market Seen for, Jan
7/14 p 126; Feb 18 p 25
Rubber-Tired, for Montreal Subway, Apr 1 p 17°
Tri-State Transportation Comm. Report on Suburban
Equipment, June 3 p 17
UP Aluminum Baggage and Postal-Storage, Jan 21
p 16°; Correction, Feb 4 p 36
Cars, Special: Ford Motor Co. Turbo-Prop Vehicle for
Inter-City Travel, June 3 p 13
Carter-Waters Corp.: Surface Conditioner, Feb 11 p 29
Carton Designed to Eliminate Machine Tool Damage,
Mar 25 p 44°
Carts:

Carts:
Baggage, at Grand Central Terminal, Apr 22 p 7
Materials to Control Oil Spill; Magnus Chem. Co.,
May 27 p 75
RMC Rail Anchor, Mar 18 p 28*
Cash and Current Assets, Changes in, Jan 7/14 p 105
Caterpillar Tractor Co.: Multi-Purpose Bucket, Feb 4
p 25*
Cement Additive; American Lubricants Co., May 6
p 41*
Census of Transportation, Appropriation for, Jan 21
n 12

census of Fransportation, Appropriation for, San 21 g 12 Centennial of the Brotherhood of Locomotive Engineers, May 6 p 14*, p 50†; May 13 p 37 Center Plate Lubrication, NRLC Panel Discussion on, May 20 p 30 Center Plate Lubricator; Spring Packing Corp., Apr 8 p 56*

Center Plate Lubricator; Spring Packing Corp., Apr 8 p 86*
Central of Georgia, Southern Buys Controlling Interest in, June 25 p 7
Central Railroad of New Jersey:
TOFC Service; Chicago-Philadelphia, May 6 p 7
Vandalism, Campaign Against, May 6 p 48
Centralized Traffic Control:
Installations in 1962, Jan 7/14 p 104
Review of 62; Outlook for 63, Jan 7/14 p 48
Charles Machine Works: Trenching Machines, Feb 18 p 50*; June 10 p 42*
Chase Bag Co.: Plastic Shipping Bags, Feb 25 p 71*;
Mar 25 p 77*
Chaskin-Dimmick Teleprinter Actuator, Apr 1 p 26*
Chesapeake & Ohio:
Control of 8&O Approved by ICC, Jan 7/14 p 78;
Feb 11 p 9*; Mar 4 p 36; Apr 1 p 10
Culverts Replace Arches in Bridge, May 6 p 22*
Hit by Floods, Mar 25 p 56
1962 Flash Annual Report, Jan 7/14 p 126
Plan V TOFC, June p 36
Timetable, Combined B&O-C&O, June 17 p 56
TOFC Reports Compiled by, May 8 p 45
Chicago:
Ris Cut Commuter Deficits, Feb 25 p 54
Ris Cut Commuter Deficits, Feb 25 p 54

Chicago:
RRs Cut Commuter Deficits, Feb 25 p 54
Skyway Toll Bridge in Trouble, June 17 p 56
Survey Finds Rail Commuters Rappiest, May 13 p 18
Transit Developments in, Feb 18 p 18
Chicago & Eastern Illinois: Two Non-Management Men
Win Seats on Board, May 20 p 56
Chicago & North Western:
Awarded President's "E" Flag, Jan 7/14 p 128; Jan
28 p 54*
Commuter Cruiser Service, Apr 1 p 36

28 p 54°
Commuter Cruiser Service, Apr 1 p 36
Considering Diversitying Operations, May 27 p 82
Forecast for 1963, Apr 29 p 69
Materials Management on, Apr 22 p 24
Outlook for Commuter Business, Feb 25 p 54
Resume of ORT Job Stabilization Dispute, Jan 7/14
p 92

p 92
Train Discontinuance Plea Renewed, Jan 21 p 33
Unitized Coal Trains, June 24 p 100
Chicago & Western Indiana: BRC Strike Barred, June
10 p 48
Chicago, Aurora & Elgin, Illinois Highway Officials
Consider Plans to Acquire Part of, Feb 18 p 56

Chicago, Burlington & Quincy: Cars, Box, with Foamed-in-Place Insulation, Mar 11 p 12*

Carago, with Foamed-in-Place Insulation, Mar 11
Carago, Double-Deck Stock, Feb 4 p 33°
Consulter Business in 1962, Feb 28 p 54
Integral Coal Train Planned, Jan 7/14 p 123
Merger with GN and NP, Jan 7/14 p 123
Passenger Traffic Outlook, May 20 p 20
Twin Cities Passenger Sales "Blitz". Jan 28 p 56
Chicago, Milwaukee, St. Paul & Pacific:
Plan III TOFC Expanded, Mar 11 p 8
Tax Payments to Support Local Airports, Compared
with Airline Payments, Apr 15 p 30
Traffic Analysis System, Feb 25 p 22°
Chicago, North Shore & Milwaukee Abandoned, Jan 28
p 12
Chicago, Rock Island & Pacific:
Cars, Articulated Flat, Mar 4 p 27
Commuter Operations in 1962, Feb 25 p 54
Merger Agreement with UP and SP, May 20 p 52;
May 27 p 82
Traffic Department Streamlined, June 3 p 27

Commuter Operations in 1962, Feb 25 p 54
Merger Agreement with UP and SP, May 20 p 52;
May 27 p 82
Traffic Department Streamlined, June 3 p 27
Chicago South Shore & South Bend:
Improvement Program, Jan 7/14 p 121
Minority Group Fails to Win Control, Jan 28 p 7;
Mar 25 p 84, Apr 1 p 7
Motor Coach Operating Certificates Sold, Apr 29 p 69
Passenger Operations in 1962, Feb 25 p 54
Chicago Transit Authority:
New Cars to Have 'Eye Appeal', Apr 1 p 18*
Trainphones Installed on, Jan 21 p 36
Chocks, Guard Rail; Bethlehem Steel Co., Feb 18 p 50*
Cincinnanti Transit Developments, Feb 18 p 20
Cincinnanti Transit Development Co.:
Floor Modules for Moving Loads on Air, Jan 28 p 41*; Mar 25 p 12*
Clark Equipment Co.:
Floor Modules for Moving Loads on Air, Jan 28 p 41*; Mar 25 p 12*
Class Rates, Uneconomic Characteristics of, Jan 7/14 p 53*
Class Cates, May 27 p 78
Class Cates, May 27 p 78
Class Rates, Uneconomic Characteristics of, Jan 7/14
p 53*
Clayton Mig. Co.: Steam Cleaner, June 24 p 94*
Cleaners; Wyandotte Chem. Corp., Mar 4 p 30 (Degressing Compound); Apr 15 p 33 (Aluminum)
Cleaning Equipment and Processes:
ACF Grit Blast Cleaners for Cars, Feb 4 p 20*
Alr.-Pressure Gun, Ry. Equip. & Methods Co., Mar 11 p 42
Electrode Boller Convertible to, Apr 22 p 27

All-Pressure dum; My. Equip. & Methods Co., Mar 11 p 42
Electrode Boiler Convertible to, Apr 22 p 27
Pipe Cleaning Tool; Clementina Ltd., Mar 4 p 30*
Pumps; Wyandotte Chem. Corp., Apr 22 p 27*
Spray Washing of Locomotives; MP, Jan 21 p 20*
Steam Cleaner; Clayton Mig. Co., June 24 p 94*
Ultrasonic Cleaner; LaR Mig. Co., Mar 4 p 30*
Cleaning of Care; Soo Line Mobile Unit, Jan 28 p 29*
Clementina Ltd.: Pipe Cleaning Tool, Mar 4 p 30*
Cleveland Transit Developments, Feb 18 p 20; Correction, May 6 p 33
Coal by Wire—or Rail? Jan 28 p 502
Coal Conversion to Jet Fuel Studied, Mar 18 p 36
Coal-Hauling Roads Hit by Floods, Mar 28 p 56
Coal Interests Hail Rate Cuts, Apr 15 p 20
Coal Rates:
Pipelines Held Key to RR Rates, June 3 p 31

Pipelines Held Key to RR Rates, June 3 p 31 RR Rates to Waukegan Under Investigation, Mar 4

p 36
Trainload; NYC-PRR-P&LE-P&S, Mar 18 p 17; Apr 8 p 71; Apr 15 p 20, p 40; Apr 22 p 31*; May 6 p 48
Coal Requirements, ACF Study of, June 24 p 25
Coal Sales Overseas Promoted by Reading, June 17 p 44*; p 50
Coal Slurry Pipeline of Consolidation Coal Company to Close, May 13 p 7
Coal Trains (See Integral Coal Trains)

Coai Trains (See Integral Coal Trains)

Coatings:
Corrosion Control; Continental Oil Co., Apr 8 p 65
Epoxy; Philadelphia Resins Co., Apr 15 p 33
Epoxy; Rowe Prod., Inc., June 24 p 93
Epoxy Liner; A-D-M, Feb 25 p 72°
Protective; Wilbur & Williams, June 24 p 93
Spray De-Icer; Spray Prod. Co., Feb 18 p 50
Steel-Treet; Carter-Waters Corp., Feb 11 p 29
Wet Engine Start; Spray Prod. Corp., Jan 21 p 22
Collective Bargaining Facing Last Chance, Feb 11 p 11
College Men on the Railroads:
How NYC Keeps Them on the Job, Feb 18 p 33°
New Transportation Courses, Northwestern, Mar 18 p 35
College Transportation Courses, Northwestern Univer-

New Transport Degree at Northwestern, Mar 18 p 35 College Transportation Courses, Northwestern University Transportation Center to Survey, June 24 p 100 Collins Radio Co. RF Microwave, May 20 p 50° Colorado Fuel & Iron Corp.: Steel Pole Reinforcers, Apr 29 p 56° Committee Against Unlawful Transportation: Educational Material Supplied by, Jan 21 p 36 Workshop Conference, Mar 11 p 36° Common Carriers: Inter-Modal Feuding Must End, Feb 25 p 78 Unity Urged, Mar 4 p 28 Weak Spots Cited by W. B. Johnson, May 20 p 45 Commonwealth Edison Plans Integral Coal Trains, Jan 7/14 p 123; Feb 4 p 27; Feb 11 p 7; Mar 11 p 48

p 48
Communications & Controls Co.: Intercom Set, Mar 4 p 29*
Communications Seminars Planaed by Bell Telephone System, May 6 p 48
Communications Systems:
Automatic Message Switching; NYC, Apr 8 p 53
Bison Yard; E-L—NYC&St., Apr 29 p 14*
CTA Installs Trainphones, Jan 21 p 36
Expenditures Planaed for 1963, Jan 7/14 p 48
Installations in 1962, Jan 7/14 p 104

Communications Systems: (Continued)

Communications Systems: (Continued)
JNR Tokaldo Line, June 3 p 22
SURCOM Proposal Outlined by RSMA, Apr 8 p 50
Commutation Service (See Passenger Service: Suburban Service: Mass Transport; Rapid Transit)
Commuter Deficite, Chicago Roads Cut, Feb 25 p 54
Competitive Transportation:
Are Some Long-Haul Rates Too Low?, Feb 11 p 22;
Mar 4 p 261
Coal Pipeline vs. Railroads, Feb 25 p 78
Equality Seen Key to, Jan 21 p 32
Inter-Modal Feuding Must End, Feb 25 p 78
Pipelines Held Key to RR Coal Rates, June 3 p 31
RRS Urged to Make Competition', June 17 p 53
RTI Panel on, May 27 p 80
REA Express Wins Survival Fight, Jan 28 p 15*, p 17*; June 17, p 49
Review of 1982, Jan 7/14 p 97
Compound, Plastic, for Treating Spike Holes; Eaton Mfg. Co., Apr 29 p 56*
Computers (See Electronic Data Processing)
Concrete Ties (See Ties)
Conductor Speaks Out, A., May 27 p 301
Connectors, Pressure; Minnesota Mining & Mfg. Co.,
Mar 18 p 2*
Consolidated Diesel Elec. Corp.: Spotting Dolly, Mar
2 p 78
Consolidation Coal Co.: Coal-Slurry Pipeline to Close,

Conrad Equip. Co.: Portable Yard Ramp, Mar 25 p 78Consolidated Diesel Elec. Corp.: Spotting Dolly, Mar
25 p 78
Consolidation Coal Co.: Coal-Slurry Pipeline to Close,
May 13 p 7
Construction Projects:
Authorized for 1963, Jan 7/14 p 112
Zompleted or Under Way in 1962, Jan 7/14 p 112
JNR Tokaldo Line, June 3 p 18*
PRR 6-Mile Spur Persent Problems, Apr 22 p 14*
Container Service:
Benefits and Problems of, May 13 p 11
CN Expands, Apr 29 p 70
Dempster Side Loader Used by REA, Mar 11 p 36*;
June 24 p 27*
Foreign Trade May Help Boom, June 24 p 16, p 19
Future of, Feb 4 p 8, 10; Apr 8 p 71; June 24 p 16,
p 19, p 22, p 72
Integral Train Concepts, June 3 p 33
REA Express Coast-to-Coast Passenger Train Service, Jan 28 p 16, p 21*; Mar 11 p 36*; June 24 p
27* (Unit-Haul)
RSMA Seminar on, May 6 p 44
Southern's COMAR Rail-Truck Service, Feb 11 p 12;
June 24 p 76
SP Experimental Operation, Feb 4 p 11
Container Stacking Slide Rule, Mar 25 p 78
Containertzed Loading; Ford Motor Co., June 3 p 9*
Container Used to Ship Fruit to Switzerland, Feb 4

Containers: Cooltainer Used to Ship Fruit to Switzerland, Feb 4

Cooltainer Used to Ship Fruit to Switzerland, Feb 4 p 27
M-H Equip. Co. Collapsible, Jan 28 p 42*
Standards, NDTA Committee Studies, Jan 21 p 36
Standards, P. B. McGinnis on, Apr 8 p 71
Standards, Shippers' Views on, Feb 25 p 56
Tote Bins Used by Amoco Chem. Corp., Apr 29 p 26*
Continental Oil Co.: Corrosion Control, Apr 8 p 65
Controlotron Corp.: Liquid Level Indicator, June 3 p 26*
Convercer's Switzers.

Converters, DC: RR Accessories, Corp., Mar 18 p 26 Conveyor Systems, REA Express Circular Terminal, Jan 21 p 13° Tube Carriers Handled by, Bison Yard, Apr 29 p 15 Cooltainer Used to Ship Fruit to Switzerland, Feb 4 p 2 Coordination of Promotional Functions of Transportation Agencies Under Commerce Undersecretary for Transportation Asked, June 17 p 35 Coordination of Traffic and Operating Departments Urged, June 10 p 24; June 17 p 16 Coordination of Traffic and Operating Departments Urged, June 10 p 24; June 17 p 16 Coordination of Traffic Section (See Transportation, Integrated)

Coordination of Transportation (See Transportation, Integrated)
Cord, Extension; Ideas Inc., Jan 21 p 21
Corrosion Control; Continental Oil Co., Apr 8 p 65
Corrosion Control Co.: Rust Remover, Jan 21 p 22
Cost Evidence in Competitive Rate Cases, ICC Rule-Making Proceeding Involving, Apr 1 p 36; May 13 n 10

p 10 Cost Finding; David Wells on Barge Form C, May 27

p 81
Costs: RRs to Fight ICC Decision on Acceptance of
Revenue-Splits by Owner-Operators as Costs of
Regulated Truckers, May 27 p 81
Coupling, Sleeve; Armco Steel Corp., Feb 11 p 29*
Cox, W. T., Co.: Rail-Road Conversion Unit, Mar 11
p 41*
Cranes:

p 41°
Cranes:
Heavy Mobile; Galion Iron Works, Mar 25 p 78
Heavy Mobile; Galion Iron Works, Mar 25 p 78
Rough Terrain; Grove Mig. Co., May 20 p 50°
Telescopic Boom; Young Spring & Wire, Feb 25 p 71
Traveling; Drott Mig. Co., May 27 p 75°
Tricycle; Baldwin-Lima-Hamilton, Jan 28 p 42°
Wrecking, Off-Track; Pettibone-Mercury, June 17
p 42°

Tricycle; Baldwin-Lima-Hamfiton, Jan 28 p 42°
Wrecking, Off-Track; Pettibone-Mercury, June 17
p 42°
Crew Consint, NYNR&H to Cut, May 13 p 11
Crossings, Highway Grade;
ICC Investigation of Truck-Train Accidents; Proposed Report, May 27 p 9°
Protection Installations in 1962, Jan 7/14 p 104
Crossties (See Ties)
Cuban Crisis Effort of RRs, Jan 21 p 32
Cuban Crisis Effort of RRs, Jan 21 p 32
Cuban Crisis, 'Load and Go' Military Rates Sped
Movements During, Feb 4 p 11
Cuban Prisoner-Exchange Ransom Goods Handled Free
by RRs, Jan 21 p 38; Apr 8 p 71; May 6 p 47; June
17 p 56
Cuban Saboteura Cause Train Wrecks, May 20 p 56
Cuban Saboteura Cause Train Wrecks, May 20 p 56
Culverta Replace Arches in C&O Bridge, May 6 p 22°
Current Luniter; Thomas A. Edison Ind., Apr 15 p 33°;
Current Publications, Feb 18 p 48; Feb 25 p 50; Apr 1
p 28; June 24 p 87
Cushioned Cars Called Safe by ICC Examiner, May
13 p 9°
Slidding Shil Market, Jan 7/14 p 24

Sliding Sill Market, Jan 7/14 p 24 Cylinders, Parker-Hannifin Hydraulic, Apr 22 p 27

Daylight Saving Time Cost to RRs, Apr 29 p 70
Decks, Riveted, on Auto-Rack Cars, Jan 7/14 p 118*
Defense Traffic Management Service:
Freight Forwarders' Agreement with, June 3 p 36
Lincoln, R. B., Jr., Named Commander, Apr 29 p 69
'Load and Go' Rates, Feb 4 p 11
Rate Plan Adopted by Eastern RRs, Feb 25 p 73; Mar

'Load and Go' Rates, Feb 4 p 11
Rate Plan Adopted by Eastern RRs, Feb 25 p 73; Mar 25 p 58
Degreaser Compound; Wyandotte Chem. Corp., Mar 4 p 30
Delaware & Hudson:
Hiltz, J. P., Jr., Named Chief Executive Officer,
June 24 p 88
Seeks Inclusion in N&W-NYC&StL or PRR-NYC
Mergers, Feb 11 p 7; Apr 1 p 10
White, William, to Step Down as Chief Executive Officer, Apr 29 p 70
Delta Nu Alpha Headquarters Moved, Jan 28 p 56
Dempster Side Loaders Used by REA, Mar 11 p 36*;
June 24 p 27*
Dennison Mig. Co.; Identification Tag, Feb 4 p 25
Denver & Rio Grande Western:
Gilsonite as Fuel, Research on, Feb 25 p 17
Interview with G. B. Aydelott, Feb 25 p 17*
Locomotives, Diesel-Hydraulic, Experience with,
Feb 25 p 17
Narrow-Gauge Passenger Operations, Mar 18 p 341
Department of Transportation in Cabinet Proposed,
Apr 29 p 72*
Depreciation Guidelines:
New, Review of, Jan 7/14 p 101
1962 Earnings Resulting from, Mar 18 p 29
Sought for Grading and Tunnels, Mar 4 p 10
Derailments (See Accidents)
Detectors:
High-Load; Frontier Electronics, Mar 18 p 28
Magnetic; RR Accessories Corp., Jan 21 p 21
Presence; Use in Retarder Yards, Jan 28 p 52
Snow; Frontier Electronics, Feb 11 p 29
Detroit:
Report on HHFA Mass Transport Demonstration
Program, Feb 18 p 20

Detroit:

Report on HHFA Mass Transport Demonstration
Program, Feb 18 p 20
Transit Developments in, Feb 18 p 20; May 6 p 33
Detroit Graphite Co.: Protective Paint, Apr 8 p 85
DeWalt, Inc.: Carton Designed to Eliminate Machine
Tool Damage, Mar 25 p 44*
Dick, A. B. Co.: Videograph System for Car Checking,
Apr 29 p 21*
Digitronics Corp.: Dial-o-verter System on IC, Mar 18
p 35; Tape Reader, June 3 p 26*
Dining Car Revenues and Expenses in 1962, June 17 p
10
Dining Car Sarvica:

Dining Car Service: Champagne Dinner; AT&SF Super Chief, June 17 p 56 Mass Feeding with a Flair in France, Apr 29 p 67

Mass Feeding with a Flair in France, Apr 20 y 50 Distribution:
Equipment Leasing as a Means of Accelerating Improvements in, Feb 4 p 11
RRs Urged to Study, May 27 p 82; June 24 p 16
Diversification of Transportation:
How to Honor Mr. Anderson, Jan 28 p 58†
IC Industries Acquires IC, Jan 7/14 p 128; Jan 21 p 7; Mar 4 p 36, Apr 1 p 36
Illinois Central Philosophy on, June 17 p 13
RR Reorganizations to Permit, Jan 7/14 p 103
SRL-SF Seeks to Operate Barge Line, Mar 18 p 32;
Apr 1 p 36

Stl.-SF Seeks to Operate Barge Line, Mar 18 p 32;
Apr 1 p 36
Dolly, Spotting; Consolidated Diesel Elec. Corp., Mar 25 p 78
Dorr-Oliver Siurry Pump, June 3 p 26*
Dow Chemical Co.: Aluminum Tank-Hopper Cars, Mar 4 p 13*
Prott Mig. Corp.: Traveling Cranes, May 27 p 75*
Duff-Norton Mechanical Actuator, June 3 p 26*
Dunnage, Rubber, Cuts P. Ballantine & Sons Damage
Claims, Apr 29 p 24
du Pont All-Door Box Car for Yarns, Feb 18 p 34*
du Pont Non-Mettalic Strapping, Jan 28 p 41
du Pont Radio-Controlled Switching Locomotives, Jan 28 p 32*; Apr 22 p 7

Earnings of Railroads:
Amount Resulting from New Depreciation Guidelines and 75 investment Credit, Mar 18 p 29 Value Line Investment Survey, Feb 11 p 36 Eastern RRs' Rate Plan Adopted by DTMS, Feb 25 p 73; Mar 25 p 58 Eaton Mig. Co.: Plastic Compound for Treating Spike Holes, Apr 25 p 56*
Edison, Thomas A., Ind.: Current Limiter, Apr 15 p 33*: Correction, May 6 p 41 Editors Afteld, Jan 26 p 52 Education, Professional Transportation, Needed, Apr 22 p 31; June 3 p 36 Electric Autolite Co.: Battery Charger, May 6 p 41* Electric Boiler Corp.: Electrode Boilers, Apr 22 p 27 Electric Storage Battery Co.: Motive Power Batteries, Apr 15 p 44* and May 27 p 75*; Sealed Lead-Acid Battery, Apr 15 p 44* and May 27 p 75*; Sealed Lead-Acid Battery, Apr 26 p 55*

Secretic Unities: Are Unities Socialisater, June 17 p

58†
Electrification: Reading Fox Chase Line Authorized,
Jan 7/14 p 128
Electronic Car Checking; Bison Yard, Apr 29 p 21*
Electronic Car Identification (See Car Identification
Systems, Automatic)
Electronic Control System for Loading and Unloading
Wine Tank Cars, Apr 29 p 24*
Electronic Data Processing:
ACF Technical Center, Apr 8 p 68*
Application to Wheel Problems, May 13 p 26
Automatic Message Switching; NYC, Apr 8 p 53
CMSP&P Traffic Analysis System, Feb 25 p 22*
Computer, 1440 Compact; IBM, Feb 4 p 25
GN Car Reporting System, Apr 8 p 55

Electronic Data Processing: (Continued) IC Modernizes Billing; Speeds Car Reporting, Apr 29 p 58*

as p 38" IC Speeds Train Consist Data, Mar 18 p 35 Loss and Damage Analyzed by, Mar 25 p 17"; June 10 p 47 Loss and Damage Analyzed by, Mar 25 p 17*; June 10 p 47
Magnetic Ledger System; IBM, Jan 21 p 22
MP Inventory Control System, Apr 22 p 26
MP Retrains Clerks for Automation, Apr 15 p 16*
Multimeter; Motorol DC, Feb 4 p 26*
Paperwork Automation Pays Off on MEC, Apr 8 p 54
PRR Inventory Control System, Feb 18 p 29
Potential for Enlarging Jobs, Apr 8 p 72
Scheduling Locomotive Maintenance by, May 6 p 23
Tape Reader; Digitronics Corp., June 3 p 28*
Tape Reader; Teletype, Mar 4 p 29*
TRRA Tests Car Accounting System, June 17 p 27*
TOFC Equipment Utilization; B&O, June 24 p 72
Transit Planning Aided by, May 6 p 40
WP-GE Integrated Information System, Feb 11 p 28
Writing Machine; Friden Inc., Apr 15 p 33*
Electronic Scale, Reading to Install, Apr 22 p 34
Electronic Yard; E-L - NYC&STL at Buffalo, Apr 29
p 13*
Elgin, Joliet & Eastern: ORC&B Seeks 100% Wage In-

p 13*
Elgin, Joliet & Eastern: ORC&B Seeks 100% Wage Increase, Jan 21 p 33
Ellcon-National Train-Line Gauge, Apr 15 p 34*
Employees: (See also Names of Unions; Non-Operating Unions; Operating Unions; Training of Employees; Working Rules and Agreements)
Handling Grievances at Local Level Urged, June 10 p 26

p 26 NYNH&H to Cut Crew Consist, May 13 p 11 Number in RPI Plants, May 20 p 54 Number of (Monthly), Mar 4 p 7; Apr 1 p 7; May 27

Number of, 1953-62, Jan 7/14 p 90° (Chart), p 91
One-Man Crews in Holland, Mar 11 p 30
Union Shop Employees Need Not Pay Dues Used for
Political Purposes; Supreme Court Decision, May
20 p 52
Wage Negotiations:
ARSA Seeks increase, Apr 8 p 71
BRS Demands, Mar 4 p 7; June 3 p 7
BRT to Push Demands, Feb 4 p 12
ORCAB Seeks 100°F, Raise from EldE, Jan 21 p 33
O&CAB Seeks Wage Increase, Insurance, Jan 1/14
p 9

Yardmasters of America Case Settled, Apr 22 Review of Year 1962, Jan 7/14 p 91

Review of Year 1962, Jan 7/14 p 91
Wages:
Compensation, 1953-62, Jan 7/14 p 91
Compensation including Supplements, 1953-62,
Jan 7/14 p 90° (Chart), p 91
Hourly Rate, 1953-62, Jan 7/14 p 90° (Chart), p 91
Hourly Rate including Supplemental Payroli Costs,
1953-62, Jan 7/14 p 90° (Chart), p 91
Index of Wage Rates, 1953-62, Jan 7/14 p 93
Non-Operating Union Increases Since 1951, June
20° Employment in Transportation Industry, June 10 p 48
Employment (See also Job Stabilization)
Engine, Gasoline; Wisconsin Motor Corp., Feb 11 p
20°
Engineering Research, Review of, Mar 11 p 16°

29*
Engineering Research, Review of, Mar 11 p 16*
Equipment Leasing and Renting:
Berman Leasing Co.'s Business Grows, Jan 21 p 36
Future for, Apr 8 p 20
Means of Accelerating Distribution Improvements,

Means of Accelerating Distribution Improvements, Feb 4 p 11

NYNH&H Car Lease Plans, Feb 18 p 55; May 20 p 24
Strick Trailer Operations, May 27 p 82; June 24 p 90
Trends in TOFC Equipment, June 24 p 16
Erie-Lackswanna:
Bison Yard in Service, Apr 29 p 13*
Locomotives, Alco 2400-Hp. Century, June 10 p 29*
Losses for 1963 Forecast, Apr 15 p 7
Merger Position, Apr 1 p 11
NY State Teachers Retirement System May Make
Loan to, June 10 p 48
Seeks to Discontinus Five Trains, May 13 p 40
Sells DL&W Line for Highway, May 20 p 13
TOFC Service; Chicago-Philadelphia, May 6 p 7
White, William; ICC Approves Application for Autority to Head, May 13 p 36; June 10 p 7; June 17
PTurope:

Europe: Break-Through in Industrial Relations, May 13 p 42† Nationalization of RRs Did not Solve Problems, June

Nationalization of RRs Did not Solve Problems, June 24 p 100
European Common Market: Effect on Freight Rates, Apr 22 p 18
Evans Prod. Co.:
Bolted Bulkheads, Apr 22 p 28*
Freight-Car Side Fillers, June 24 p 93*
Exhibits:
American Railway Progress Exposition, Feb 11 p 23; List of Exhibitors, Mar 18 p 24; Correction, Apr 8 p 72; Apr 15 p 36; May 27 p 58
British Rys. Design Panel, May 27 p 17
International Exhibition of Transport and Communications to be Held in Munich in 1965, May 20 p 56
Explosives, Transportation of: ICC to Review Specifications for Pressure-Cargo Tanks on Motor Vehicles, Mar 18 p 36
Export Flags Awarded to C&NW, Jan 7/14 p 126; Jan 28 p 54*; Alco Products, Apr 15 p 7
Export Market:
Locomotive Sales Up, Jan 7/14 p 28
RR Promotion of American Goods Overseas Suggested, June 17 p 50
Reading Promotes Coal Sales, June 17 p 44*, p 50
U.S. RR Equipment Purchased for AID Program, June 10 p 48

Fairmont Railway Motors, Inc.: Ballast Maintenance Car, Mar 11 p 40° Brush Cutter, Mar 11 p 40° Track Liner, Mar 11 p 41°

Fansteel Metallurgical Corp.: Battery Charger, Feb 4

Fansies measure property page 1926*
Fare 6(See Passenger Fares)
Farr Co.:
Air filter Patent Sult Won by, June 24 p 100
Air intake Dipstick, Feb 11 p 30
Fasteners, Structural; Huck Mig. Co., Apr 22 p 27*
Fault Analyzer, Philoc, Apr 1 p 26*
Filter Buggy; Schroeder Bros. Corp., Feb 11 p 29*
Filters: Filters: Air; Device for Determining Cleanliness; Farr Co.,

Fault Analyzer; Philco, Apr 1 p 26*
Filter Buggy; Schroeder Bros. Corp., Feb 11 p 29*
Filters:
Air; Device for Determining Cleanliness; Farr Co.,
Feb 11 p 30
Air; Patent Suit Won by Farr Co., June 24 p 100
Fuel; Wix Corp., Jan 21 p 22 (Correction)
Finances, RR, ATA Seeks Probe of, Jan 28 p 55
Fines for Illegal Truck Operations, Mar 18 p 36
Fines for Violations of ICC Service Order, June 3 p 29
Fines Paid by RRs, Jan 21 p 36; Mar 4 p 36; Mar 25 p
36; June 3 p 36
Fire at North American Car's Chicago Ridge Plant,
June 1 p 56
Fire Extinguisher, Fyr-Fyter, June 3 p 25
Fire Retardant; U.S. Borax & Chem. Co., Mar 11 p 40
Firemen on Diesels:
Labor-Management Negotiations (See Working Rules
and Agreements)
Southern's Fireman-Off Plan, Feb 4 p 9; Court Ruling, Mar 20 p 55
Flexi-Van Service:
NYC LC/Van Service, Jan 28 p 40
NYC-Seatrain Lines, May 6 p 46
Floods Hit Coal-Hauling Roads, Mar 25 p 56
Flood modules for Moving Loads on Air; Clark Equip.
Co., Jan 28 p 41*, Mar 25 p 62*
Flooring, Ajax Consolidated Car, Mar 25 p 78*
Flooring, Ajax Consolidated Car, Mar 25 p 78*
Flooring, Flustin Steel Prod. Safety, Mar 25 p 78*
Flooring Tiles; Armstrong Cork Co., Apr 1 p 25; Apr
29 p 56
Florida East Coast:
Brosnan, D. W., Denied Authority to Continue as a
Director, June 17 p 56
Strike by Non-Operating Unions, Jan 28 p 11; Feb 11
p 11; Mar 18 p 36; by BLE, Apr 8 p 10; Fails to
Stop Trains, May 27 p 54*
Withdraws from Work Rules Case, Apr 8 p 10; Government Suit against, Apr 29 p 69
Foam House; CB&Q, Mar 11 p 12*
Foaming Unit; Mine Safety Appliances Co., June 24 p
39*
Ford Motor Co.;
Cutting Damage on Curved Glass, Apr 29 p 24
Cutting Damage on Curved Glass, Apr 29 p 24
Cutting Damage on Curved Glass, Apr 29 p 24

Ford Motor Co.:

ord Motor Co.: Cutting Damage on Curved Glass, Apr 29 p 24 Research on Rate Structure and Cars for Handling Auto Parts, June 3 p 18 Vehicle for Inter-City Travel, June 3 p 13 orestry Program on SAL, Mar 18 p 36

Forestry Program on SAL, Mar 18 p 36
France:
Dining Car Service in, Apr 28 p 67*
Rate Structure Modermized, Apr 22 p 16
Free Transportation (See Passes)
Freight Car Loading:
Canadian Roads to Load U.S.,-Owned Box Cars
Equipped with Damage-Prevention Devices, Feb
11 p 36; Mar 4 p 34
Estimates for 1963, Mar 4 p 9; Apr 1 p 9; Correction, Apr 8 p 10
No Longer a True Business Barometer, Apr 1 p 9,
p 201; Correction, Apr 8 p 10
Promiscuous Loading Rules Cleared by ICC, May 27
p 82

p 88; Cauding Rules Cleared by ICC, May 27
p 982
Shippers Estimates, Feb 11 p 19; Apr 1 p 9; Correction, Apr 8 p 10
Ton-Mile Factor introduced into Weekly Car Loading Reports, May 6 p 7
Ton-Miles Generated by (Weekly), May 6 p 7, p 43;
May 13 p 35; May 20 p 31; May 27 p 77; June 10 p
43; June 17 p 51; June 24 p 95
Tonnage vs., Apr 1 p 9, p 281; Correction, Apr 8 p 10
Transfer Table for TOFC Loading, Feb 18 p 42*
Weekly Reports, Jan 7/14 p 121; Jan 21 p 31; Jan 28
p 51; Feb 4 p 31; Feb 11 p 31; Feb 18 p 51; Mar 4
p 31; Mar 11 p 43; Mar 18 p 31; Mar 25 p 76; Apr
1 p 31; Apr 8 p 67; Apr 22 p 29; Apr 29 p 65; May
6 p 43; May 13 p 35; May 20 p 51; May 27 p 77;
June 10 p 43; June 17 p 51; June 24 p 95
Years 1953-62, Jan 7/14 p 88; Chart p 89*
Freight Commodities Weight Distribution of Carloads
by Type of Car in 1961, Feb 25 p 10
Freight Commodity Code, Standard, Jan 7/14 p 99
Freight Gorwarders Aguisition Provisions of IC Act,
Proposal to Clarify, Apr 15 p 10
Freight Corravarders Sign Agreement with DTMS for
Operations During National Emergencies, June 3 p 36
Freight Handling:
Auto-Parts; Ford Motor Co., June 3 p 9*

p 36
Freight Handling:
Auto-Parts; Ford Motor Co., June 3 p 9*
Floating Loads on Air, Jan 28 p 41*; Mar 25 p 62*
Radioactive Waste, May 27 p 78*
SP Hy-Cube Hydra-Cushion Box Car, May 13 p 12*
Tote Bins Used by Amoco Chem. Corp., Apr 29 p

26*
Unit Strapping of Plywood, Mar 25 p 44*
Unusual Shipments, Mar 18 p 36
Freight Operating Statistics: Third Quarter, Mar 4
p 32
Freight Rates (See Rates, Freight)
Freight Sales (See Sales)

Freight Sauss (over Sauss)
Freight Service:

B&O High-Speed Schedules, Jan 28 p 43*
Customer-Oriented; D. W. Brosnan on, Jan 28 p 10
How RRs Can Win Back Traffic, Jan 28 p 37
Shippers' Use of Rail Service; AARS Survey, June
17 p 53

Freight Service Operating Ratios in 1962, June 17 p 10 Freight Traffic: Carloadings vs. Tonnage, Apr 1 p 9, p 291; Correc-tion, Apr 8 p 10

Freight Traffic: (Continued)

Citrus Shippers' Reaction to TOFC, Feb 25 p 62 °Cuban Prisoner-Exchange Ransom Goods Handled Free by RRs, Jan 21 p 36; Apr 8 p 71; May 6 p 47; Fluctuation Communication of the C Feb 4 p 10

Fluctuations Compared with Production, If How the CMStP&P Analyzes, Feb 25 p 22* Intercity:

Fluctuations Compared with Production, Feb 4 p 10 How the CMSP&P Analyzes, Feb 25 p 22* Intercity:

By Type of Carrier, 1961, Jan 7/14 p 72
Common Carriers increase Share of, Feb 11 p 36
RR Share, 1946-61 (Chart), Jan 7/14 p 89* Outlook for 1963, Jan 7/14 p 21; Apr 1 p 9; Correction, Apr 8 p 10
Per Cent to be Handled by TOFC by 1975, Feb 4 p 8, p 10; June 24 p 17
RRS Bound Back with Auto-Rack, Apr 15 p 9*
Ton-Miles, 1953-62, Jan 7/14 p 88; Chart, p 89* Freight Train Performance: Years 1920-62 (Chart), Jan 7/14 p 97*
French National Railways:
Dining Car Service, Apr 2p p 67*
Protection Tape, Feb 11 p 30
Rate Structure Modernized, Apr 22 p 16
Friden Automatic Writing Machine, Apr 15 p 33*
Frigikar Power Units, Apr 8 p 65
Frontier Electronics, Inc.:
High-Load Detector, Mar 18 p 28
Snow Detector, Feb 11 p 20
Fuel:
ACF Coal Requirements Study, June 24 p 52
D&RGW Research on Gilsonite, Feb 25 p 17
Jet, Coal Conversion to, Studied, Mar 18 p 36
Fuel Fliter; Wix Corp., Jan 21 p 22 (Correction)
Fueling System; Aeroquip Corp., Jan 21 p 22*
Full Crew Bill Defeated in Illinois, June 10 p 47; June 24 p 7
Futh-Crew Law, Oregon RRS Denied Change in, Jan 21 p 7; Mar 11 p 48; Apr 22 p 7
Future of the Railways:
Bright Future Seen by R. L. Terrell, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80
Industry Needs: Unity - Self-Help, May 27 p 80

Industry Needs: Unity - Self-Help, May 27 p 80
Mass Transport - Prediction in Pictures, Feb 18 p

26*
Mass Transport Market, Feb 18 p 25
Outlook for 1963, Jan 7/14 p 103; Jan 21 p 9
Regionalization Will Mean Less Long-Range Hauling, June 24 p 86
Six Roads to Better Times, Mar 4 p 38†
Think Big. . . . Many in the Industry are Doing it, May 6 p 13

6 p 13 Year of Dedication, A, Jan 7/14 p 128† Fyr-Fyter Extinguisher, June 3 p 25

Gages, Train-Line; Ellcon-National, Apr 15 p 34* Gages, Window Sight, Oil Rite Corp., Feb 4 p 28* Galton Iron Works & Mig. Co.: Mobile Crane, Mar 25 p 78
Gaspe Peninsula Rail Line Pianned, Mar 11 p 7
Gate, Discharge; Wine Ry. Appliance Co., May 27 p 16*
General American Transportation Corp.:
Ads Featuring Wild Animals, June 3 p 34*
All-Door Box Car for Yarns, Feb 18 p 34*
All-uninum Tank Car for Sodium Chlorate, Feb 11 p 18*

Aluminum Tank Car for Sodium Chlorate, Feb 11 p

18**
Aluminum Turbo-mixer, Feb 25 p 72*
Earnings in 1962, Mar 11 p 48
International Subsidiary Formed, Apr 22 p 33
Screw, Self-Tapping, June 24 p 94
Tank Car, 20,000-Gal., for Wine, Apr 29 p 24*
General Electric Co.:
Locomotive Market Outlook, Jan 7/14 p 26*
Radio Transmitter, Hand-Held, Apr 15 p 33*
UP to Test 5000-Hp. U50 Diesel-Electric Locomotives, June 17 p 48
WP Integrated Information System, Feb 11 p 28
General Motors Corp.:
Car Designed for Auto Parts, May 13 p 12*
Electro-Motive Div.:
Justice Dept. Seeks to Force Sale, Jan 21 p 11
Locomotive Market Outlook, Jan 7/14 p 26*
Locomotives, GP -35 2500-Hp., and DD -35 5000-Hp. Diesel-Electric, May 20 p 42*
General Precision, Inc.: Presence Detector, Apr 1 p
26*
General Railway Signal Co.:

General Railway Signal Co.: Electronic Distance-to-Coupling Control, Apr 29 p

Electronic Distance-to-Coupling Control, Apr 29 p
22
Presence Detectors; Bison Yard, Apr 29 p 22
General Signal Corp. Reports on Long-Term Rail Outlook, May 13 p 40
General Steel Industries: St. Louis Car Div.: UP Aluminum Headend Cars, Jan 21 p 16*; Correction,
Feb 4 p 36
Genesse & Wyoming:
Cars, Hopper, with Sliding Roofs, Apr 1 p 21*
Traffic Developments, Apr 1 p 24
Georgia & Florida Control by Southern Approved by
ICC, Jan 7/14 p 126; Apr 8 p 72
Georgia-Pacific Corp.: Automatic Unit Strapping of
Plywood, Mar 25 p 44*
Germany, Plastic Train Tested in, Mar 18 p 32*
Glasses, Safety; American Optical Co., May 6 p 41
Glazing Technique; Better Finishes & Coatings Co.,
Apr 8 p 65
Gould-National Batteries, inc.: Battery Chargers, Jan
28 p 41; Apr 22 p 27

Goudo-National Batteries, Inc.: Battery Chargers, Jar 28 p 41; Apr 22 p 27 Government Outlays for Transportation in 1963, Mar 18 p 10; Apr 1 p 361; June 10 p 501 Government Ownership Did Not Solive Problems of European RRs, June 24 p 100 Government 'Planners', Getting Along with, Apr 1 p

ernment Should Take Steps to Forestall Rail Strike, Apr 22 p 36†

Government Transportation Agencies; Coordination of Promotional Functions Under Commerce Under-secretary for Transportation Asked, June 17 p 35

Promotional Functions Under Commerce Undersecretary for Transportation Asked, June 17 p 35
Government Transportation Policy; Removal from
Political Arena Urged, Mar 11 p 50†
Government's Lopesided Promotion of Science and
Transportation, Apr 15 p 42†; Apr 29 p 72†
Grain Crop, Southwestern, No Car Shortages Expected
in Moving, June 24 p 100
Grain Rates, Volume, on Southern, Cleared by ICC,
Jan 28 p 9; Feb 4 p 34; Single-Car Rates Effective, Mar 4 p 36; Mar 11 p 46; Cleared by Supreme
Court, Apr 22 p 30; Reopened by ICC, Apr 20 p 10
Grand Central Terminal, Baggage Carts at, Apr 22 p 7
Grants for Mass Transport Experiments, Jan 28 p 54;
Feb 4 p 1; Feb 11 p 36; Feb 18 p 20, 22, 24; Mar
4 p 19; May 13 p 40
Gray Area Transportation:
Cargoes Should be Seized, Feb 25 p 78
Gypsy Truckers a Threat to Vital Services, May 20
p 56
How Shippers Can Aid Fight On, June 24 p 100

Gypsy Truckers a Threat to Vital Services, May 20 p 56

How Shippers Can Aid Fight On, June 24 p 100

Material to Combat Supplied by CAUT, Jan 21 p 36

Starve It to Death, May 27 p 13

Truckers Have No Monopoly on, Mar 11 p 39

Great Northern:
Earnings Effected by Car Shortage, May 6 p 48

Experience with Central Car Bureau, Apr 8 p 55

Merger with NP and CB&Q, Jan 7/14 p 128

Great Slave Lake Line Construction, Apr 1 p 32; Apr

8 p 67; June 10 p 43

Green Giant Co.: Damage Claims Cut, Apr 29 p 24

Green diant Co.: Damage Claims Cut, Apr 29 p 24

Green Giant Co.: Damage Claims Cut, Apr 29 p 24

Green Giant Co.: Damage Claims Cut, Apr 29 p 24

Green Giant Co.: Damage Claims Cut, Apr 29 p 24

Green Mile Steel Car Co.:

Aluminum Tank-Hopper Cars; Dow Chem. Co., Mar 4 p 13

Grove Mig. Co.: Rough Terrain Crane, May 20 p 50

Gulf Mobile & Ohio: Integral Coal Trains Planned, Feb 4 p 27; Feb 11 p 7

Gun, Air-Pressure; Ry. Equip. & Methods Co., Mar 11 p 12

Guy Guard; Preformed Line Prod. Co., Jan 7/14 p 120

Guy Strain Insulator; Line Material Ind., Jan 7/14 p 119

H

Halliburton Co.: Tanks for Southern Quad-pod Car, Mar 18 p 18*

Hammarlund Mig. Co.: Emergency and Branch Line Communications System, May 20 p 50*

Hammer, Lightweight; Skil Corp., Mar 4 p 30*

Handy Reference to RR Associations, Jan 21 p 26

Harvard Business School to Study Methods for Improving the Teaching of Transportation Management, June 24 p 100

Heaters:

ing the Teaching of Transportation Management,
June 24 p 100
Heaters:
Car Thawer; E. L. Wiegand Co., Jan 7/14 p 119
Fuel Oil; Vapor Corp., June 24 p 94*
Trailer, Preco Methanol-Fueled, Mar 25 p 80
Herbicide, Granular, Applicator for; Pepco Eng.
Prod., Mar 11 p 41*
Herbicide, Granular; Nalco Chem. Co., Mar 11 p 41
Herbicide, Granular; Nalco Chem. Co., Mar 11 p 41
Hewlett-Packard AC Voltmeter, June 10 p 41*
Highway Trailer Ind.: Piggyback Trailer, Apr 29 p 55*
Highway Use; Collection of Tolls Wherever Congestion
Occurs Proposed, June 3 p 36*
Highways Dominate Pittsburgh Planning, Apr 1 p 13
Hobart Bros. Welder Package, June 3 p 25*
Hoist Attachment for Fork Lift Trucks; Cady Metal
Fabricating, Inc., Feb 25 p 17:
Holan Pole Puller, Apr 1 p 26*
Hoover Ball & Bearing Co.: Tote Bins Used by Amoco
Chem. Corp., Apr 29 p 26*
Hose Fitting, Aeroquip, Jan 21 p 21*
Hose, Flexible; Universal Metal Hose Co., Feb 25 p
72*
Hose, Rubber; Aeroquip Corp., Mar 11 p 41

Hose, Flexible; Universal metal Hose Co., Feb 20 p 12*

Hose, Rubber; Aeroquip Corp., Mar 11 p 41

Hotbox Detector Telemeter; Pacific Communications and Electronics, June 10 p 41

Hotbox Statistics:

Monthly, Jan 21 p 36; Feb 4 p 36; Feb 18 p 56; Apr 8 p 71; Apr 29 p 69; May 20 p 56

Years 1960-62, Jan 7/14 p 98°; Apr 8 p 7

House Committee on Interstate and Foreign Commerce: Minimum Rate Bill Hearings, May 6 p 10; May 13 p 10, p 36; June 3 p 32; June 10 p 10; June 17 p 54

Housing and Home Finance Agency: Mass Transportation Demonstration Grants, Jan 28 p 54; Feb 4 p 7; Feb 11 p 36; Feb 18 p 20, 22, 24; Mar 4 p 19; May 13 p 40

Huck Mig. Co.: Structural Fasteners, Apr 22 p 27°

IC Industries Acquires IC, Jan 7/14 p 126; Jan 21 p 7;
Mar 4 p 36; Apr 1 p 36
Ideas Inc.: Extension Cord, Jan 21 p 21
Illinois Central:
Billing, Non-Manual, Apr 29 p 58*
Car Reporting System Speeded Up, Apr 29 p 58
Commatter Service in Black in 1962, Feb 25 p 54
EDP Speeds Train Consist Data, Mar 18 p 35
IC Industries Acquires, Jan 7/14 p 126; Jan 21 p 7;
Mar 4 p 36; Apr 1 p 36
Passenger Traific Outlook, May 20 p 22; June 17 p
18*

What's Ahead for: Interview with W. A. Johnston,

June 17 p 13*
Ellinois Full Crew Bill Defeated, June 10 p 47; June 24

N 7 Illinois Power Co. to Operate Remotely-Controlled Switcher, Apr 22 p 30

Image, Effective, is Today's First Requirement for Success, May 27 p 16* Index to Volume 153, May 13 p 40 B&M Activities Increase Revenues, Apr 1 p 36 N&W in 1962, Feb 4 p 36 Industrial Engineers, How StL-SF Uses, June 10 p 13° Industrial Development: 13*
Information and Display Center; CN at Montreal, Mar 4p 34*
Infrared Car Thawing Equipment, Jan 7/14 p 119
Ingersoll-Rand Electric Shear, June 24 p 94*
Ingersoll-Rand Packaged Compressors, May 27 p 76*
Ingersoll-Rand Power Tools, Apr 1 p 25
Inspection Vehicle; Reed Eng., Feb 18 p 40*
Institute for Rapid Transit; Annual Meeting, May 20 p 13

Institute of Electrical and Electronics Engineers: Joint RR Conference with ASME, Feb 18 p 32; May 6 p 38 Insulation, Foamed-in-Place, in CB&Q Box Cars, Mar 11 p 12*

Insulator, Guy Strain; Line Material Ind., Jan 7/14 p. 119

Insulator, Guy Strain; Line Material Ind., Jan 7/14 p

Insurance Benefits, ORC&B Seeks, Jan 7/14 p

Insurance Benefits, ORC&B Seeks, Jan 7/14 p

Integral Coal Trains:

ACF 100-Ton Cars for, June 24 p 52°

C&NW to Operate, June 24 p 100

CB&Q Plans, Jan 7/14 p 123

Coal by Wire - or Raif', Jan 28 p 50 t

GM&O to Operate Commonwealth Edison Trains,
Feb 4 p 27; Feb 11 p

1.8N Experience with, June 3 p 33

L&N Train for Peabody Coal Co., Feb 11 p 36; Apr
28 p 62°

NYC to Operate Peabody-Commonwealth Edison
Train, Jan 7/14 p 123; Mar 11 p 48

N&W Designs 100-Ton Hopper Car for, May 13 p 14°
PRR to Operate Philadelphia Electric Co. Train,
Mar 18 p 17

Unitrain; Dundee Cement Co., Feb 4 p 36

Integral Trains:
Benefits Studied by 35 RRs, May 27 p 82

Liner Trains Proposed in England, Apr 15 p 32

RSMA Seminar on, June 3 p 32

Integrated Transportation (See Transportation, Integrated Transportation (See Transportation, Integrated)

Inter-Agency Committee Report on Mergers, Mar 11 p 39°

Interchange Rules for TOFC Revised, Jan 28 p 56

Intercom Set; Communications & Controls Co., Mar 4 p 29°

Interlockings:

p 29* Interlockings:

Interlockings:
Installations in 1962, Jan 7/14 p 104
P&LE at McKees Rocks Uses Solid-State System,
June 10 p 30*
Solid State, Placed in Service, Jan 7/14 p 49
International Business Machines Corp.:
1440 Compact Computer, Feb 4 p 25
Magnetic Ledger System, Jan 21 p 22
International Exhibition of Transport and Communications to be Held in Munich in 1965, May 20 p 56
International Harvester Co.: Brush Cutters, Mar 18 p
27*

International Union of Public Transport to Hold Congress in Vienna, Mar 18 p 17
International Union of Railways Gets New Paris Head-quarters, Apr 1 p 33° international Wheel Sets Congress Held in Italy, May

International Wheel Sets Congress Held in Italy, Ma 13 p 26 Interstate Commerce Act: Proposal to Clarify For-warder-Acquisition Provisions, Apr 15 p 10 Interstate Commerce Commission:

nterstate Commerce Act: Proposal to Clarify Forwarder-Acquisition Provisions, Apr 15 p 10

nterstate Commerce Commission:
Accident Reports:
Annual Report to Congress, Jan 7/14 p 65
Appropriations Proposed for, Jan 21 p 12
Atlantic-Gulf Ships Sea-Land Rate Case; Suprems
Court Upholds Competitive Rate-Making, Apr 29 p 9

B&M Petition for Inclusion in N&W-NYC&SIL
Merger Denied, Feb 16 p 55, Apr 1 p 10

Burden of Proof Determination, June 24 p 10

Burden of Accounts: RRS Assall Shudy of Distribution of the Rail Revenue Contribution by Commodity Groups, May 13 p 10

Bureau of Transport Economics and Statistics:
Fluctuations in Railroad Freight Traffic Compared with National Production, Feb 4 p 10

Freight and Passenger Service Results in 1962,
June 17 p 10

Index of Average Freight Rates, Feb 18 p 30

Revenues of Regulated Carriers, Jan 7/14 p 126

Weight Distribution of Carloads for Each Commodity Class by Type of Car, Feb 25 p 10

Cars, Hydroframe-69 Box, Called Safe in Proposed
Report, May 13 p 9

C&O Control of B&O Approved, Jan 7/14 p 78; Feb

11 p 9*, Mar 4 p 36; Apr 1 p 10

Cost-Evidence Case, Apr 1 p 36; May 13 p 10

D&H Petition for Inclusion in N&W-NYC&StL
Merger Denied, Feb 11 p 7; Apr 1 p 10

Division Chairmen for 1963, Jan 7/14 p 10

East-West Divisions Case Report, Apr 6 p 13

Freight Commodity Classification, New, Proposed, Feb 4 p 10; Apr 1 p 10

Division Chairmen for 1963, Jan 7/14 p 10

East-West Divisions Case Report, Apr 6 p 13

Freight Commodity Classification, New, Proposed, Feb 4 p 10; Apr 1 p 10; May 13 p 40; June 10 p 46

Goff, Abe McGregor, Vice-Chairman, Apr 1 p 10

Investigation of Truck-Train Grade Crossing Accidents, Proposed Report, May 27 p 9

Minimum Rates Legislation, Compromise Favored in, Apr 22 p 12

Man, Proposed Report, May 27 p 52

Man, Proposed Report, May 27 p 52

Man, Proposed Re

Interstate Commerce Commission: (Continued)
Port Differentials Order Condemned by Supreme
Court, May 27 p 10; Seeks Rehearing, June 17 p 56
Power to Prohibit Rate Reductions Should be

Court, may at p 10; Seeks Rehearing, June 17 p 56
Power to Prohibit Rate Reductions Should be
Curbed, Apr 22 p 34
"Regulatory Lag" Charges Refuted, Apr 22 p 10
Safety Regulations on Operation of Track Motor
Cars Amended, June 3 p 36
Service Orders, Feb 1 p 36; May 13 p 40; RRs
Penalized for Violations, June 3 p 29
Signal Rule Changes Proposed, June 7 p 29
Signal Rule Changes Proposed, Jan 7/14 p 49
Southern Ry. Control of G&F Approved, Jan 7/14
p 126; Apr 8 p 72
Southern Ry. Grain Rates Cleared by, Jan 28 p 9;
Feb 4 p 34; Single-Car Rates Effective, Mar 4 p
36; Mar 11 p 48; Cleared by Supreme Court, Apr
22 p 30; Reopened by, Apr 29 p 10; Thermey, P. J., Succeeds D. P. McPherson, Jan 28 p
10; Mar 18 p 7; Mar 25 p 64; Apr 1 p 10; Apr 15 p
37*
TOFC Investigation, Jan 7/14 p 102 (Review All-

Topic marris primar spos; Apr 1 p 10; Apr 1 p 10; Apr 1 p 10; Apr 1 p 10; May 6 p 44; May 20 p 56; Comments on Proposed Rules, June 24 p 17
Transcontinental Divisions Case, Apr 8 p 13
Inventories:
January 1, May 6 p 43
Materials Management; RSMA Seminar, Apr 22 p 24
Inventory Control System, EDP-Oriented; PRR, Feb 18 p 29; MP, Apr 22 p 26
Ireland, New Deal for RRs in, Feb 25 p 50*
Ireland, New Deal for RRs in, Feb 25 p 50*
Iron Ore Co. of Canada: Electric Locomotives Replacing Diesels, Apr 15 p 40

Jack, Car: Ry. Maint. Corp., June 24 p 93*

Japanese National Rys. Tokaido Line: Radar Proposed,
Feb 4 p 36; Study Week, Apr 15 p 40; Report, May
20 p 16; June 3 p 18*

Job Stabilization:
How to Get 'Security', Mar 18 p 38†
ORC&B Demands on EJ&E, Jan 21 p 33
SP-BRC Case, Jan 7/14 p 122; Mar 25 p 56; Apr 1
p 12; June 3 p 7

Unions Should Work with RRs on, Mar 18 p 342
Johnson Rubber Co.: Rubber Insulated Rail Joint, Feb
11 p 30*
Jonard International Corp.: Pocket Burnisher, June 24
p 94

p 94 Journal Lubricators (See Lubricators, Journal) Journal Stop; Security Ry. Prod. Co., Apr 15 p 34*

Kaiser Engineers: Computers as an Aid to Transit Planning, May 6 p 40 Kalamazoo Mfg. Co.: Snow Plow and Broom, Feb 4 p 25* Kellogg Co. to Install Railweight System, Feb 4 p 3 Kentucky & Tennessee: L. C. Bruce Elected Presid

p 25° to Install Railweight System, Feb 4 p 36 Kentucky & Tennessee: L. C. Bruce Elected President, Jan 7/14 p 84 Kershaw Mg. Co.: Tie-Bed Scarifier, Mar 11 p 41° Ketchikan & Northern Terminal Facilities at Saxman, Alaska, Feb 25 p 78 Kimberiy-Clark Towel Dispenser, Apr 8 p 66°; Packaging Material, Apr 22 p 28° Klein, Mathias, & Sons, Inc.: Narrow-Nosed Pilers, May 20 p 49° Hack Saw, June 10 p 42° Koerber, D. I.: Statement on Shippers' Legislative Roll, May 27 p 34° Krauss-Maffel Diesel-Hydraulic Locomotives, D&RGW Experience with, Feb 25 p 17

L&R Mfg. Co.: Ultrasonic Cleaner, Mar 4 p 29* LCL Plan, Single Agency, REA Express Can be Founda-tion for, Apr 29 p 70

LCL Plan, Single Agency, REA Express Can be Found tion for, Apr 29 p 70

LCL Service:
ACL Sets Up New System, Mar 11 p 7

NYC LC/Van Service, Jan 28 p 40

Reading Rail-Truck Service Speeds, Apr 29 p 60*;
May 8 p 47

Label, Scotchilte, Used in Car Identification System, Mar 25 p 40*

Label, Scotchilte, Used in Car Identification System, Mar 25 p 40*

Labor-Management Relations:
Break-Throughin Europe, May 13 p 42†
Conductor Speaks Out, A, May 27 p 301

Local-Level Relationships, June 10 p 26

Luna, Charles, on, Feb 4 p 12*
Outlook for 1963, Jan 7/14 p 29*
Wirtz, W. Willard, on, Feb 11 p 11

Labor Unions:
Challenge to, May 6 p 50†; May 13 p 42†

History and Development of, May 6 p 14*, p 50†

Rail Unions do Not Support Rail Legislation as

Teamsfers Support Truck Legislation, May 20 p 56

Refusal to Enter Agreements in Merger Cases, Feb

p 56 Refusal to Enter Agreements in Merger Cases, Feb

P 30

Refusal to Enter Agreements in Merger Cases, Feb 4 p 9

Latch, Camloc Fastener Tension, Feb 25 p 71*

[Anti-] Leasing Rule of ICC's Proposed TOFC Regulations, Mar 4 p 10

Legislative Activity:

AAR Program, Mar 4 p 10

RPI to Coordinate, May 13 p 37; June 3 p 29

Shippers Views on Roll in, May 27 p 15

Year 1982, Jan 7/14 p 99

Lenkurt Elec. Co:

Alarm System, Mar 4 p 29*

Duobinary Coding System, Apr 1 p 26*

Lighting Equipment:

Bison Yard; E-L.-NYC&StL, Apr 29 p 16*

Mobile Floodlight; Snap-On Tools, June 24 p 94

Obstruction Lights; Rohm Mgc, Co., May 20 p 49*

Sign Lighter: Pyle-National, Jan 21 p 21*

Line Material Ind.: Guy Strain Insulator, Jan 7/14 p 119

Liner, Hopper Car, Archer-Daniels-Midland Epoxy,

Feb 25 p 72*

Liner Kits, Car; Macomb Wholesale Lumber Co., May 27 p 75 Lining Material; Westinghouse Elec. Corp., Mar 25

p 77*
Liquid Level Indicator; Controlotron, June 3 p 26*

quid Level Indicator; Controlotron, June 3 p 20°ading Equipment:

'Air-in-Floor' Load Glide System, Jan 28 p 41°;
Mar 25 p 62°
Bulkheads, Bolted, Apr 22 p 28°
Panels, Adjustable Plywood, Jan 28 p 41°
Portable Yard Ramp, Mar 25 p 78°
Side Fillers for Freight Cars, June 24 p 93°
Taddire Pules

Side Fillers for Freight Cars, June 24 p 93°
Loading Rules:
Open-Top Trailers, AAR Formulates, Feb 18 p 56
Promiscuous, Cleared by ICC, May 27 p 82
Loan, Government-Guaranteed, Approved for P&WVa,
Mar 25 p 84
Loans (See also Grants)
Lockers, Perforated; Lyon Metal Prod., May 6 p 41
Locomotive Maintenance: Computer-Scheduling on
NYC, May 6 p 23
Locomotive Market:
Buying Turns Sharply Upward, Jan 7/14 p 26°
Export Salse Up, Jan 7/14 p 28
Replacements Required; Next Five Years, Feb 4 p 18
Locomotive Supply:

Replacements Required; Next Five Years, Feb 4 Locomotive Supply:
Age of, Jan 7/14 p 28
Buying Turns Sharply Upward, Jan 7/14 p 26*
Installations in 1962, Mar 4 p 31
Installations, 1953-61, Jan 7/14 p 96
On Order, End of Years 1963-61, Jan 7/14 p 96
On Order, End of Years 1963-61, Jan 7/14 p 96
Orders in 1962, Jan 7/14 p 28, p 107
Owned or Leased, January 1, 1963, Mar 4 p 31
Ownership, 1963-62, Jan 7/14 p 96
Locomotive Washing Facility; MP, Jan 21 p 20*
Locomotive Washing Facility; MP, Jan 21 p 20* Locomotives:

ocomotives:
Diesel-Electric:
Alco Century Series, Feb 4 p 16*; First Locomotives Delivered to E-L, June 10 p 20*
EMD DD-35, 5000-Hp. Unit, May 20 p 42*
EMD GP-35, 2500-Hp. Unit, May 20 p 42*
Repowering with Higher Horsepower, Jan 7/14 p 26
UP to Test 5500-Hp. Alco and 5000-Hp. GE Units,
June 17 p 48*

June 17 p 48*

Diesel-Hydraulic:
Alco Products to Build for SP, Mar 18 p 7

D&RGW Experience with, Feb 25 p 17

NYC Tests, Feb 25 p 7

Electric: NYNH&H Buys Virginian Electrics, June 10

p 45

Remote Comirol Operation:

p 45
emote Control Operation:
Air Brake Train Line Tested for, June 3 p 7
ASME-IEEE Discussion of, May 6 p 39
du Pont Switchers, Radio-Controlled, Jan 28 p 32*;

Air Brake Train Line Tested for, June 3 p 7
ASME-IEEE Discussion of, May 8 p 38
du Poot Switchers, Radio-Controlled, Jan 28 p 32*;
Apr 22 p 7
Hunp Engines in Retarder Yards, Jan 28 p 52
Illinois Power Co. to Equip Switcher, Apr 22 p 30
Long Island:
To Test Automatic Fare Collection and Ticket Validation, Feb 4 p 7
Weekend Chiefs' Go First Class, June 24 p 84*
Los Angeles Metropolitan Transit Authority: Officers
Re-lected, Apr 1 p 30
Los Angeles Monorail, Alwey Plans for, Apr 1 p 19
Los Angeles Monorail, Alwey Plans for, Apr 1 p 19
Los Angeles Transit Developments, Feb 18 p 20; SalesTax Financing Proposed, Apr 29 p 68
Loss and Damage Prevention: (See also Claims)
ARMEA Shipper-Gram Contest, Feb 4 p 38
Brick and Tile Survey, May 27 p 82
Carton Designed to Eliminate Machine Tool Damage, Mar 25 p 44*
EDP Analysis of, Mar 25 p 17*; June 10 p 47
How Shippers Cut Claims, Mar 25 p 23; Apr 29 p 24
MEC Adds Car Numbers to Claim Payment Cards,
Apr 8 p 54
National Freight Loss and Damage Prevention Committee Outlines Plans for, June 17 p 52
Problems in Perishable Handling, Mar 18 p 16
(TOFC); Mar 25 p 80
Southers's Cars for Fragile Freight, May 27 p 18°
Unit Strapping of Plywood, Mar 25 p 44*
Loudspeaker, Talk-back; Railroad Electronic Laboratories of Omaha, Inc., June 3 p 25
Lousville Knashville:
Cars, 100-Ton-Hopper, Apr 29 p 62°
Hay Rates Cut to Drought Areas, Feb 11 p 36
Integral Coal Trains:
Cars, 100-Ton-Hopper for, Apr 29 p 62°
Experience with, June 3 p 33
Peabody Coal Co. Trains, Feb 11 p 36
Isocracking Reactor Vessel Handled, Mar 18 p 36
Solls Pigsyback Trailers to REA Leasing Corp.,
Leases Them Back, June 10 p 48
Supreme Court Rules Strike Over Grievance Within the Jurisdiction of the NRAB is Barred by RLA,
May 6 p 44

supreme court Rules or the NRAB is Barred by RLA, May 6 p 44
Yard Office Procedures Mechanized, Apr 8 p 55
Lubricants:
Dry; Superior Graphite Co., Jan 21 p 22
Low Temperature Performance of Greases in Roller Bearings, May 20 p 30
Lubrication, Center Plate, NRLC Panel Discussion on, May 20 p 30
Lubricator, Center Plate; Spring Packing Corp., Apr 8 p 86
Lubricators, Journal: AAR Approval Status, Feb 4 p 38
Lumber, 'A-Frame' Flat Car for; NP, Mar 11 p 58
Lumber Incentive Raise Cleared by ICC, Mar 4 p 28
Lynch Communication Systems, Inc.: Solid-State
Microwave, June 3 p 25*
Lyon Metal Prod.: Perforated Lockers, May 6 p 41

M-H Equip. Co.: Collapsible Container, Jan 28 p 42*
MacGregor-Comarin, Inc.: Sliding Roof for Hopper
Car, Apr 1 p 21*
MacLean-Fogg Lock Nut Co.: Lock Nut, June 3 p 26*

Macomb Wholesale Lumber Co.: Car Liner Kits, May 27 p 75
Macwbyte Wire Rope Co.: Wire Rope, Feb 11 p 30
Magnus Chem. Co.: Oil Spill Control Unit, May 27 p 75*
Magor Car Corp.: F. J. Schroeder Named President,
Jan 28 p 49
Mail Handling: 'Airlift' to be Expanded, Mar 25 p 84
Maine Central: Paperwork Automation Pays Off, Apr 8 p 54
Maintenance of Buildings, Radio Helps NP in, Mar 18 p 23*

p 23*
Maintenance of Equipment: (See also Shops)
Computer—Scheduling for Locomotives, May 6 p 23
Mechanical Functions Require New Methods, May 6

Maintenance of Equipment: Isse also Snops)
Computer—Scheduling for Locomotives, May 6 p 23
Mechanical Functions Require New Methods, May 6
p 23
Maintenance of Way:
ARE Engineering Research, Review of, Mar 11 p 16*
Review of 62; Outlook for '63, Jan 7/14 p 34*
Maintenance of Way Equipment:
How to Plan Budgets, Mar 4 p 22
Purchases in 1962, Jan 7/14 p 36
Management:
"New Breed" in; St.L.-SF, June 10 p 13*
Relations with Public Relations Men, June 17 p 34
Selling Training Programs to, May 20 p 41
Systems Dept. a Training Spot for, May 13 p 18
Transportation, Harvard Business School to Study
Methods of Improving Teaching of, June 24 p 100
Management Training Program; Nf., Feb 18 p 33*
Markon Call Diverter, Apr 1 p 26*
Markon Call Diverter, Apr 1 p 26*
Markon Call Diverter, Apr 1 p 26*
Markon Wire; Stranco Prod., Mar 4 p 30
Markot Outlook, Jan 7/14 p 121; Jan 21 p 31; Jan 28 p
31; Feb 4 p 31; Feb 16 p 31; Feb 18 p 51; Feb 25
p 73; Mar 4 p 31; Mar 11 p 43; Mar 18 p 31; Mar 25
p 79; Apr 1 p 31; Apr 8 p 67; Apr 15 p 35; Apr 22
p 29; Apr 29 p 55; May 6 p 43; May 15 p 35; May 20
p 51; May 27 p 77; June 3 p 31; June 10 p 43; June 11 p 51; June 24 p 95
Market Pattern Changes; Ford Motor Co., June 3 p 10
Market Research:
Bureau Established by CRI&P, June 3 p 27
St.-SF Staff Research, June 10 p 13*
Marketing, W. M. Holiman; Concept of, May 20 p 56
Markets:
Freight Car (See Car Supply, Freight)

Marketing and Salea Development Organization, Monon Off-Line, Feb 25 p 74

Markets:
Freight Car (See Car Supply, Freight)
Integral Trains, June 3 p 33
Locomotive (See Locomotive Market)
Mass Transport, Feb 18 p 25
Rapid Transit Cars, Jan 7/14 p 126; Feb 18 p 25
Marsh Steel & Aluminum Co.: Surface Conditioner, Feb 11 p 29

Martin Eng. Co.: Vibrators, Feb 25 p 78°; Apr 22 p 28°
Mass Transport (See 180 25 p 17 mr 4 p 19, 7 36; Apr 1 p 19; Apr 8 p 7; Apr 15 p 10; May 6 p 33, p 47

Mass Transport (See 180 Rapid Transit; Subways)
Blueprint for Survival, Feb 18 p 18
Federal Aid Urged by Pres. Kennedy, Jan 21 p 12
Cities Concerned with, Feb 18 p 16
Cities in Chaos, Feb 18 p 16
Cordination is the Key, Feb 18 p 19
Northeast Illinots Mass Transit Comm. Proposed, Feb 25 p 78
Pittisburgh Plan Approved by Allegheny County Commissioners, Apr 29 p 69; June 3 p 13
Pittsburgh Plan Approved by Allegheny County Commissioners, Apr 29 p 69; June 3 p 13
Potential Market for, Feb 18 p 26
Prediction—In Pictures, Feb 18 p 26
Prediction—In Pictures, Feb 18 p 20
Grants Mass Transport Emonstration Programs:
Detroit Project, Report on, Feb 18 p 20
Grants Made to Date, Feb 18 p 20
Tri-State Transport Emonstration Comm., Jan 28
p 54; Mar 4 p 19
Menphis to Test Suburban Development, Feb 18 p 22
Tri-State Transportation Comm. Seeks Funds for NYCentral Project, Apr 29 p 70
Washington, D. C. Small Bus Project, Feb 11 p 36
Massachusetts Mass Transportation Comm. Federal
Grant for Transport Experiment, Jan 28 p 54; Mar 4 p 19
Material Price Index, 1953-62, Jan 7/14 p 93; January, Feb 25 p 10; April, May 20 p 7

Material Price Index, 1953-62, Jan 7/14 p 93; January, Feb 25 p 10; April, May 20 p 7 Material Prices and Wage Rates, 1953-62, Jan 7/14

p 93

p 93

marrials Management, RSMA Seminar on, Apr 22 p 24

Matisa Equip. Corp.: Tie Renewal Machine, Mar 11

p 42

Meetings of RR Associations, Jan 21 p 26

Megohnmeter, Portable; Associated Research, Apr 15

p 34

Memphis HHFA Mass Transport Demonstration Project, Feb 18 p 22
Merger-Moratorium Bills Introduced, Mar 11 p 39;
Mar 25 p 84

Mar 25 p 84

Mergers:
ATA Seeks Freeze on, Jan 28 p 55
ATASeF-MP Plan Studies, June 10 p 46
ACL-SAL Case, Mar 18 p 7; May 13 p 40
Check List for P&S Men Faced with, Jan 7/14 p 33
C&O Control of B&O Approved by ICC, Jan 7/14 p 78;
Feb 11 p 9°; Mar 4 p 36; Apr 1 p 10
Early Mergers are Urgently Needed, Feb 4 p 21
GN-NP-CB&Q, Jan 7/14 p 126
Inter-Agency Committee's Report, Mar 11 p 39
Labor Unions' Refusal to Enter Agreements to Implement, Feb 4 p 9
New Criteria for, May 27 p 80
New England Roads; J. M. Symes on, May 13 p 40
NYC-PRR Negotiations, Feb 11 p 7; Feb 18 p 55;
Apr 1 p 10; Apr 8 p 71

Mergers: (Continued)
N&W-NYC&StL-Wabash, Feb 11 p 7; Feb 18 p 55;
Apr 1 p 10; ICC Examiner's Report, Apr 22 p 22
Supported in Principle by TAA, June 3 p 36
UP-CRI&P Agree on, May 20 p 52; May 27 p 82
Message Switching, Automatic; NYC, Apr 8 p 53
Metropolitan Transit Authority of Boston:
Rapid Transit Cars, Mar 4 p 16*
Rapid Transit Improvement Program, Mar 11 p 7
Mexican Railways, New Service for, Apr 15 p 20

MEXICO:
Loan for RR Spur from Proposed Sodium Sulphate
Plant, Apr 29 p 69
MP Orders Box Cars from, Mar 18 p 10
Miami Transit Developments, Feb 18 p 22; Apr 1 p 19*
Microbicide; U.S. Borax & Chem. Corp., June 24 p 94
Micro

Microwave:
Radio Frequency; Collins Radio Co., May 20 p 50*
RRs Seek Permission to Transmit Public Telegrams
Over, Jan 21 p 36; Feb 11 p 36
Solid-State; Radio Corp. of America, May 27 p 76;
Lynch Communication Systems, June 3 p 25*
SP: Fresno-Dunsmuir, Feb 4 p 31
Microwave Passive Reflector, Feb 18 p 50*
Mid-West Forging & Mig. Co.: Wear Plate, Apr 15 p 33
Mileage Pay on Private Car Lines Empty Cars, Mar 4
p 261
Mine Safety Appliances Co.: Foaming Unit. June 24

p 261 Mine Safety Appliances Co.: Foaming Unit, June 24 p 93* Minimum Rates Legislation:

p 261

Mine Safety Appliances Co.: Foaming Unit, June 24
p 93°

Minimum Rates Legislation:
ATA Questions Rail Position on, Jan 28 p 55
Antitrust Immunity and, Feb 18 p 30, p 31; Mar 11
p 44; Mar 18 p 26; May 6 p 10; May 13 p 36; May 20 p 53; June 3 p 32; June 10 p 10; June 17 p 54
Bills, Mar 11 p 44; Mar 18 p 26; Mar 25 p 10; Hearings on, May 6 p 10; May 13 p 10, p 36; May 20 p 53; June 3 p 32; June 10 p 10; June 17 p 54
Bills, Mar 11 p 44; Mar 18 p 26; Mar 25 p 10; Hearings on, May 6 p 10; May 13 p 10, p 36; May 20 p 53; June 3 p 32; June 10 p 10; June 17 p 54
Deregulation Approach Still Preferred, Mar 25 p 10; Apr 1 p 34
Deregulation, Farm Organizations Support, Mar 25 p 20; May 13 p 36
Deregulation, Farm Organizations Support, Mar 25 p 10; Apr 29 p 69; May 13 p 36
JFK Aide and ATA President Clash on, Feb 18 p 31
Langdon, Jervis, Jr., on, Mar 18 p 32
McLean, H. H., on, Apr 29 p 10
Wheeler, Burton K., on, Feb 11 p 12
Wider Support Urged for, June 24 p 98
Miniquip Inc.: Two-Way Radio, Jan 7/14 p 120
Minneapolis-Honeywell Computer Center: TRRA Tests
New Car Accounting System, June 17 p 27*
Scotchlite Label for Car Identification, Mar 25 p 40*
Missourl Pacific:
Cars, Box-Express, Feb 11 p 13*
Cars, Box, Ordered in Mexico, Mar 18 p 10
How Computer Controls Inventories, Apr 22 p 26
Improvement Program, Jan 21 p 31
Merger Talks Planned with AT&F, June 10 p 46
Retraining Clerks for Automation, Apr 15 p 16*
Spray Washing of Locomotives, Jan 21 p 20*
Mixer, Chemical; General American Transportation
Corp., Feb 25 p 72*
Monon:

BRT Strike Threat, Feb 11 p 11; Feb 18 p 10
Management Wins Proxy Fight, Apr 20 7

Corp., Feb 2s p 12* Onth: Strike Threat, Feb 11 p 11; Feb 18 p 10 Management Wins Proxy Fight, Apr 22 p 7 Off-Line Marketing and Sales Development Organization, Feb 25 p 74

Off-Line Marketing and Sales Development Organization, Feb 25 p 74
Monoralis:
Alweg Plans for Los Angeles, Apr 1 p 19
New York World's Fair, May 13 p 40; June 3 p 17°
Seattle; Alweg to Continue to Operate, Feb 4 p 7;
Presented to Century 21 Center, June 10 p 48
Montreal Subway Construction, Feb 16 p 22; Apr 1
p 14°; May 6 p 33
Moore Assoc., Inc.: Multiplex, Jan 7/14 p 120
Motor Appliance Corp.: Battery Chargers, June 3 p 26°
Motor Truck Operations:
Claim Payments in 1962, Apr 22 p 34
ECMCA to Increase Small Shipments Charges, June 3 p 36
Fines for Illegal Operations, Mar 18 p 36
Fines for Illegal Operations, Mar 18 p 36
Fines for Illegal Operations, Apr 22 p 7
Motor Truck Traffic in 1962, Mar 18 p 36
Motor Truck Traffic in 1962, Mar 18 p 36
Motor Truck Traffic in 1962, Mar 18 p 36
Motor Truck Traffic in 1962, Mar 18 p 36
Motor Trucks:
ICC to Review Specifications for Pressure-Cargo
Tanks, Mar 18 p 36
Mobile Car Cleaning Unit; Soo Line, Jan 28 p 29°
Motorola DC Multimeter, Feb 4 p 26°
Motorola Radio Systems in Bison Yard, Apr 29 p 15

Nalco Chem. Co.: Granular Herbicide, Mar 11 p 41
National Association of Shippers Advisory Boards to
Meet During Exposition in October, May 27 p 58
National Capital Transportation Agency Mass Transport Plan for Washington, D.C., Feb 18 p 19, p 24;
Mar 4 p 19; June 3 p 16
National Coal Policy Conference Hails Rate Cuts, Apr
15 p 20
National Conference on Handling Perishable Agricultural Commodities, Mar 18 p 16; Mar 25 p 80
National Defense:
Bill to Give President Power to Take Over Transport Systems, May 13 p 40
Cuban Crists Effort of RRs, Jan 21 p 32
Forwarders' Agreement with DTMS, June 3 p 36
National Defense Transportation Association:
Container Standards Studied, Jan 21 p 38
Transportation and Logistics Forum, Apr 8 p 71

National Defense Transportation Day, May 6 p 48
National Freight Loss and Damage Prevention Committee Plans for Attacking L&D, June 17 p 52
National Income, RRs 'Share of, Mar 11 p 10
National Income, RRs 'Share of, Mar 11 p 10
National Industrial Traffic League:
Fears 5a Provision May be Left Out of Minimum
Rates Bill, Feb 18 p 30
Minimum Rates Bill Supported by, May 20 p 53
National Mediation Board: H. G. Gamser Named to,
Mar 18 p 33
National Railroad Lubrication Council Annual Meeting,
May 20 p 30
National Railway Labor Conference: Area Negotiators
Named, Jan 21 p 12
National Railways of Mexico: Vera Cruz-Merida Direct
Service, Apr 15 p 20
National Transportation Institute, Feb 4 p 8
National Transportation Meek, May 6 p 48
Net Income:

National Transportation Week, May 6 p 48
Net Income:
Amount Resulting from New Depreciation Guidelines
and 7½ Investment Credit, Mar 18 p 29
Estimate for First Quarter, May 20 p 55
Estimate for 1962, Feb 18 p 7
Years 1953-62, Jan 7/14 p 94; Chart p 95*
Netherlands Rys.: One-Man Crews on, Mar 11 p 30
New England Roads' Merger Proposed by J. M. Symes,
May 13 p 40
New Literature, Jan 28 p 42; Feb 4 p 28; Apr 8 p 68;

May 13 p 40 New Literature, Jan 28 p 42; Feb 4 p 26; Apr 8 p 66; Apr 29 p 56; May 6 p 42; June 10 p 42; June 24 p 94

New York Central:
Automatic Message Switching System, Apr 8 p 53
CTC Mileage, Apr 8 p 72
Computer-Scheduled Locomotive Maintenance, May 6 p 23

p 23
Fares Reduced; NY-Montreal, May 6 p 47
Flext-Vans in Seatrain Service, May 6 p 46
LC/Van Service, Jan 28 p 40
Lcocmotives, Diesel-Hydraulic, Tested, Feb 25 p 7
Management Training Program, Feb 18 p 33*
Mass Transport Demonstration Proposal, Apr 29 p

Mass Transport Demonstration Proposal, Apr 29 p
70
Merger Negotiations with PRR, Feb 11 p 7; Feb 18
p 55; Apr 1 p 10; Apr 8 p 71
Passenger Traffic Outlook, May 20 p 20
To Operate Peabody-Commonwealth Integral Coal
Train, Jan 7/14 p 123; Mar 11 p 48
Trainload Rates on Coal, Mar 18 p 17; Apr 8 p 71;
Apr 15 p 20, p 40
New York, Chicago & 8t. Louis:
Bison Yard in Service, Apr 29 p 13°
Merger with N&W-Wabash, Feb 11 p 7; Feb 18 p 55;
Apr 1 p 10; ICC Examiner's Report, Apr 22 p 22
Phipps, M. B., Elected President, Apr 1 p 30°
New York City Transit Authority:
O'Grady, J. E., Named Chairman, Feb 11 p 35
Proposals for Improving Service, Feb 18 p 22
Transit Routes for Queens Proposed, Mar 4 p 19
New York Metropolitan Area:
Forecast for 1980 Transportation, June 10 p 7
Plan for an Integrated System of Commuter and
Long-Line RR Services Proposed by S. H. Bingham, June 3 p 13
New York, New Haven & Hartford:
Abandonment Petitions Filed, Mar 18 p 36
Commuter-Car Deal Cancelled by NYPA, Feb 18 p
55; New Car Leasing Plan, May 20 p 24
Commuters Solicit Freight Business, Mar 4 p 36
Cut in Crew Consist Ok'd by Court, May 13 p 11
Freight Sales Organization Set Up, June 24 p 96°
interstate Staff Committee Report, Mar 4 p 19
Locomotives, Virginian Electric, Bought by, June 10
p 45
Railroad Professional Survey Group Report (Whitman Heaper). Apr 1 p 32

p 45
Railroad Professional Survey Group Report (Whitman Report), Apr 1 p 32
Seeks Inclusion in NYC-PRR Merger, Feb 18 p 55
Tax Relief Denied by NY State, May 13 p 40
To Take Part in Massachusetts Mass Transport
Demonstration Program, Mar 4 p 19
New York-New Jersey Transportation Agency: Journey-to-Work Study, Apr 1 p 19
New York Study Roman & Western Offers to Pay Commuters to Stop Riding Trains, May 6 p 48
New York World's Fair Monorail, May 13 p 40; June 3 p 17*
Non-Operating Unions:
New Demands Served by, June 10 p 44; RRs Counter-Demands, June 24 p 9*
Review of 1962 Wage Negotiations, Jan 7/14 p 92
Strike on FEC, Jan 28 p 11; Feb 11 p 11; Mar 18 p
36; Apr 8 p 10; Fails to Stop Trains, May 27 p 54*
Wage Increases Since 1951, June 24 p 9
Nordberg Mig. Co.: Tie Axe, Mar 11 p 42*
Norfolk & Western:
AC&Y Acquisition Approved by ICC Examiner, Apr 22 p 22
Car, 100-Ton Hopper, for Integral Trains, May 13 p 45 Railroad Professional Survey Group Report (Whit-

22 p 22 Car, 100-Ton Hopper, for Integral Trains, May 13

p 14*
Car Repair Shop at Norfolk, June 10 p 33*
Coal-Loading Record, June 24 p 7
Coal Pier 6 at Lambert's Point, Jan 21 p 36
Earninga Increase in 1962, Jan 21 p 36
Hit by Floods, Mar 25 p 56
Industrial Development in 1962, Feb 4 p 36
Lowest Operating Ratio Claimed by, Apr 8 p 7
Merger with NYC&SH.-Wabash, Feb 11 p 7; Feb 18
p 55; Apr 1 p 10; ICC Examiner's Report, Apr 22
p 22

PåWva Lease, ICC Examiner Approves, Apr 22 p 22
TOFC Service, Joint, with PRR, May 20 p 56
North American Car Corp.:
Car, 22,500-Gai. Plastic Tank, Apr 8 p 34°
Fire at Chicago Ridge Plant, June 17 p 56
Northern Pacific:
Car, 'A-Frame' Flat, for Lumber, Mar 11 p 15°
Earnings Outlook for 1963, Feb 4 p 36
Merger with GN and CB&Q, Jan 7/14 p 126
Passenger Traffic Outlook, May 20 p 22
Radto Helps Maintain Buildings, Mar 18 p 23°

Northwestern University Transportation Center: Offers New Degree in Transport, Mar 18 p 35 Study Program to Cover Executive Development and Training, Feb 18 p 56 Survey of Transportation Education, June 24 p 100 To Recommend Extension of Agricultural Exemption to RRs, Mar 4 p 25

Bergen Railway Operations, Apr 22 p 25
'Pay-as-You-Save' Plan Finances Tunnel, Apr 22
Nuclear (See Atomic)

Nut, Lock; MacLean-Fogg Lock Nut Co., June 3 p 26*

0

Ohmmeter; US&S, May 6 p 41
Oll Import Controls, OEP Proposal to Relax, Feb 18
p 56; Mar 4 p 38; Mar 25 p 84
Oll Rite Corp.: Window Sight Gages, Feb 4 p 25*
Oll Spill Control Unit; Magnus Chem. Co., May 27 p 75
Olin Mathieson Chem. Corp.: Stacking Slide Rule, Mar
25 n 78

Zb p 78
Operating Economies:
Automated Paperwork on MEC, Apr 8 p 54
Car Cleaning System; Soo Line, Jan 28 p 29*
Centralized Billing on Pátle, Apr 8 p 54
EDP Inventory Control System; PRR, Feb 18 p 29;
MP, Apr 22 p 26
Materials Management; RSMA Seminar, Apr 22 p 24
Trends. All Important, Apr 8 p 74†
Why Early Mergers are Needed, Feb 4 p 21
Procedures; L&N, Apr 8 p 35
Operating Horococcures; L&N, Apr 8 p 35
Operating Ratios, Freight and Passenger, in 1982,
June 17 p 10
Operating Studies:
B&O High-Speed Freight Schedules, Jan 28 p 43*
REA Wins Survival Fight, Jan 28 p 15*, p 17*; June
Operating-Traffic Department Coordination Urged.

Operating-Traffic Department Coordination Urged, June 10 p 24; June 17 p 16

Operating Unions:

Labor-Management Negotiations on Work Rules, Jan 7/14 p 9, p 29°; Review of Case, Jan 7/14 p 91;

Jan 28 p 9; Feb 4 p 9; Feb 18 p 9; Mar 4 p 10;

Mar 11 p 9; Mar 18 p 8°, p 38†; Apr 8 p 9; Apr 15 p 13; Apr 22 p 9°, p 38†; May 6 p 9; Emergency

Board Report, May 20 p 9°; June 10 p 9°; June 17 p 9°; "CBS Reports" on, June 17 p 55; June 24 p 97

Wage Demands, June 10 p 44

Order of Railroad Telegraphers:
May Change Name, Apr 29 p 7

Review of C&NW Job Stabilization Case, Jan 7/14 p 99

Order of Railway Conductors & Brakemen:
Seeks 100% Pay Rise on EJ&E, Jan 21 p 33
Seeks Wage increase and insurance Benefits, Jan 7/14 p
Oregon RRs Denied Change in Full-Crew Law, Jan 21 p 1; Mar 11 p 49; Apr 22 p 7
Organization of Railroads:
Coordination of Traific and Operating Departments
Urged, June 10 p 24; June 17 p 16
CRI&P Streamlines Traific Dept., June 3 p 27
NYNH&H Freight Sales Organization, June 24 p 96*

Pacific Car & Foundry Co.: PFE Large Mechanical Refrigerator Cars, Apr 15 p 12° Pacific Communications and Electronics: Hotbox Detector Telemeter, June 10 p 41 Pacific Fruit Express: Cars, Mechanical Refrigerator, Apr 15 p 12° Heaviest Load of Frozen Foods Moved, May 13 p 40

Packaging:
Carton Designed to Eliminate Machine Tool Damage,
Mar 25 p 44*

Danishable Handling, Mar 25 p 81 Mar 25 p 44*

Developments for Perishable Handling, Mar 25 p 81

Packaging Material; Kimberly-Clark, Apr 22 p 28*

Padiock, Best Car Seal, Apr 1 p 25*

Paint, Protective; Detroit Graphite Co., Apr 8 p 85

Paint Spray Unit; Binks Mfg. Co., Apr 22 p 27

Painting, Car; Wabash Pole-Type Buldings for, May

13 p 19*

Panels. Adjustable Plysrood; Mark 10 p 25*

Panels Panels Panels Panels Panels Panels Panels Panels Panel

13 p 19*
Panels, Adjustable Plywood; Union Asbestos & Rubber
Co., Jan 28 p 41*
Paper Mfgrs. Co.: Perforator Tape, Jan 7/14 p 120
Paperwork Automation Pays Off on MEC, Apr 6 p 54
Parcel Post-REA Express Competitive Situation, Jan
28 p 21
Parker-Hannida Hedwalls Calledon Apr 68 08

28 p 21
Parker-Hanniin Hydraulic Cylinders, Apr 22 p 27
Parklow Temperature Controller, May 27 p 76°
Partlow Thermal Sensing Element, Jan 28 p 42°
Passenger Business:
Chicago Roads Cut Commuter Deficits, Feb 25 p 54
Deluxe Travel Pays Off for LIRR, June 24 p 84°
Eastern Roads Meet New Commuter Rush, Jan 28 p 54
Intercity:
By Type of Carrier, 1961, Jan 7/14 p 82°
IR Pays for the Arcade & Attica, May 20 p 24
Passenger-Miles, 1953-62, Jan 7/14 p 88; Chart, p
89°
Problems Different on Every Road, May 20 p 38+

89*
Problems Different on Every Road, May 20 p 58†
Prospects for 1963: Cloudy, Jan 7/14 p 46*
RR Traffic Decline in 1962, May 13 p 7
Revenue Firm, Deficit Down in 1962, May 20 p 18*
Service-Abandonment Provisions of Transportation
Act Aid RRs in Cutting Losses, May 20 p 18
Passenger Fares:
Collection Boxes on Boston MTA Cars, Mar 4 p 17
Developments in 1962, Jan 7/14 p 90

Passenger Fares: (Continued) Li to Test Automatic Collection, Feb 4 p 7 Montreal-NY Fares Cut, Apr 8 p 71; May 6 p 47 Rail, Bus and Air Compared, Jan 7/14 p 10 Western RRs' New Pass Plan, Apr 1 p 35

assenger Miles: Intercity: Type of Carrier, 1961, Jan 7/14 p 72 Years 1953-62, Jan 7/14 p 88; Chart p 89*

Years 1953-62, Jan 7/14 p 88; Chart p 89*
Passenger Service:
Baggage Carts; Grand Central Terminal, Apr 22 p 7
British Rys. Abandonment Proposal, Apr 15 p 31
Letter to Mrs. Mayne, A, June 10 p 50†
Passenger-Piggyback: RFA Express Container
Service, Jan 28 p 16, p 21*, Mair 11 p 36*
Problems Different on Every Road, May 20 p 58†
Reading Improvements in, Feb 11 p 36
Service-Abandonment Provisions of Transportation
Act Aid RRs in Cutting Losses, May 20 p 18
Standard RRs' Interest in Urban Transportation, Feb
18 p 58†
Suburban Service: (See also Mass Transport; Rapid
Transt)

Transit)
C&NW Commuter Cruiser Service, Apr 1 p 36

NYS&W Offers to Pay Riders to Stop Riding Trains, May 6 p 48 Outlook for IC., June 17 p 18* Survey Finds Chicago Rail Commuters Happiest,

May 13 p 18 'Weekend Chiefs' Go First Class; LIRR, June 24 p

94*
Passenger Service Deficit:
Year 1962, May 20 p 18; June 17 p 10
Years 1936-62 (Chart), Jan 7/14 p 90*
Passenger Service Operating Ratios in 1962, June 17
p 10
Passenger Station at Savannah; ACL-SAL, Apr 15 p
14*

14*
Passenger Traffic (See Passenger Business)
Paston-Mitchell Ground Indicator, Mar 4 p 30
Peabody Coal Co.:
Lén Operates Train for, Feb 11 p 36; Apr 29 p 62*
To Buy Integral Train, Jan 7/14 p 123; Mar 11 p 48
Pendergar

Positioning Crane Loads, Apr 22 p 25° nsylvania: Baseball Special" Derailment, ICC Report on, Feb 25 p 76

25 p 76
Cars, Commuter, Mar 11 p 48; May 6 p 34*
Dilworth, R., Retained by, Feb 4 p 27
EDP inventory Control System, Feb 18 p 29
Merger Negotiations with NYC, Feb 11 p 7; Feb 18 p
55; Apr 1 p 10; Apr 8 p 71
Passenger Traffic Outlook, May 20 p 20
Scholarships Awarded by, June 24 p 100
Six-Mile Spur Presents Problems, Apr 22 p 14*
To Rehabilitate Passenger Cars, Apr 8 p 7
TOFC Service, Joint, with N&W, May 20 p 56
Trainload Rates on Coal, Mar 18 p 17; Apr 8 p 71;
Apr 15 p 20, p 40; May 6 p 48
TWÜ Strike Causes Commuter Increase, Jan 28 p 54
Unitized Coal Train, Mar 18 p 17
Pepco Eng. Prod.: Granular Herbicide Applicator,
Mar 11 p 41*
Per Diem:

Per Diem:

Mar 1: p 41*

Per Diem:
Classification of Cars Under Multi-Level Rental
System, May 13 p 38

Graduated Scale:
Approved by RRs, Feb 18 p 30; Mar 11 p 10; Mar
25 p 9; Apr 8 p 18; May 13 p 38

Shippers Views on, Apr 29 p 36; May 20 p 54;
June 10 p 40: Hearings on, June 24 p 98

ICC Recommendations, Jan 7/14 p 65

Perishable Handling:
Citrus Shippers' Reaction to TOFC, Feb 25 p 62*
Containerized Grapefruit Shipped to Switzerland,
Feb 4 p 27

Circle Support

Containerized Grapefruit Shipped to Switzerland,
Feb 4 p 27

Controlled Atmosphere Experiments, Mar 25 p 81
Packaging, New Developments in, Mar 25 p 81
Problem of Quality Deterioration, Mar 25 p 81
Researchers Probe Problems, Mar 18 p 16 (TOFC);
Mar 25 p 80

Trend is to TOFC, Mar 18 p 16
Pettibone-Mercury Off-Track Wrecking Crane, June
17 p 42*
Philadelphia Passenger Service Improvement Corp.:
Cars for PRR, Reading, May 6 p 34*
Results on "Operation" Routes, Feb 18 p 22; May
6 p 47

6 p 47 fladelphia Resins Co.: Epoxy Coating, Apr 15 p 33 iliadelphia-South Jersey Rapid Transit Line Ap-proved, Feb 26 p 78; Apr 15 p 7

Philadelphia to Set Up Regional Transit Authority, Apr

Philadelphia to Set Up Regional Transit Authority, Apr 29 p 69 Philadelphia Transit Developments, Feb 18 p 22 Philadelphia Transit Strike Ended, Feb 11 p 36 Philoc Fault Analyzer, Apr 1 p 26* Photocopy Unit; American Photocopy Equip. Co., May 27 p 75

Photocopy Unit; American Photocopy Equip. Co., May 27 p 75
Piggyback (See Trailer-on-Fiat-Car Service)
Pipe Cleaning Tool; Clementina Ltd., Mar 4 p 30*
Pipelines:
Consolidation Coal Co. to Close Coal Slurry Line,
May 13 p 7
Held Key to RR Coal Rates, June 3 p 31
Increase in Commodities Handled Foreseen, Feb 18
p 10; Apr 15 p 40
Pittsburg & Shawmut Trainload Rates on Coal, Mar 18
p 17; Apr 8 p 71; Apr 15 p 20, p 40
Pittsburgh & Lake Erle:
Centralized Billing Produces Savings, Apr 8 p 54
Interlocking at McKees Rocks Uses Solid-State System, June 10 p 30*
Trainload Rates on Coal, Mar 18 p 17; Apr 8 p 71;
Apr 15 p 20, p 40; Apr 22 p 31*
Pittsburgh & West Virginia:
Government-Guarantsed Loan, Mar 25 p 84
ICC Examiner Approves Lease by N&W, Apr 22 p 22
Pittsburgh Area Transportation Study, Apr 1 p 13;
June 3 p 13

Pittsburgh Plate Glass Co.: Adhesive, Neoprene, June 24 p 93 Aluminum Tank Car for Sodium Chlorate, Feb 11 p

Pittsburgh Transit Developments, Feb 18 p 23; June 3 p 13
Pittsburgh Transit Plan Approved by Allachene Communications

p 13

Pittsburgh Transit Plan Approved by Allegheny County
Commissioners, Apr 29 p 89; June 3 p 13

Plasser Railway Maintenance Corp.: Production
Tamper, Mar 11 p 40

Plastic Products:
Car Lining Material, Mar 25 p 77*
Compound for Treating Spike Holes, Apr 29 p 58*
Epoxy Coatings, Apr 15 p 33; June 24 p 93
Epoxy Chiner, Feb 25 p 72*
Guy Guard, Jan 7/14 p 120
Polyurethane Foam in CB&Q Box Cars, Mar 11 p
12*
Safety Glasses. May 8 p 41

Polytrevanare Foam in Charles Box Cars, shall it p

12*
Safety Glasses, May 6 p 41
Shipping Bags, Feb 25 p 71*; Mar 25 p 77*
Plastic Tank Car Increases Payload, Apr 8 p 34*
Plastic Train Tested in Germany, Mar 18 p 32*
Plier, Narrow-Nosed; M. Klein & Sons, May 20 p 49*
Plywood Adjustable Panels, Jan 28 p 41*
Plywood-Plastic Car Lining, Mar 25 p 77*
Plywood, Unit Strapping of, Mar 25 p 77*
Plywood, Unit Strapping of, Mar 25 p 48*
Poison in the Water Supply, Jan 21 p 38†
Pols Puller, Holan, Apr 1 p 26*
Pole Reinforcers, Steel; Colorado Fuel & Iron Corp.
Apr 29 p 56*
Pole-Type Buildings for Car Painting; Wabash, May 13

p 19*
Police and L&D Prevention Departments, Cooperation

Pole-Type Buildings for Car Painting; Wabasa, May 13 p 19*
Police and L&D Prevention Departments, Cooperation Between, Mar 25 p 20
Port Authority Trans-Hudson Corp.: Car Bids Returned, Feb 25 p 10; Apr 15 p 35; To Receive Bids, Apr 22 p 29; May 6 p 47
Port Differentials, Supreme Court Condemns ICC Order Upholding, May 27 p 10; ICC Seeks Rehearing, June 17 p 56
Port of New York Authority:
Car Bids Returned, Feb 25 p 10; Apr 15 p 35; To Receive Bids, Apr 22 p 29; May 6 p 47
NYNH&H Commuter-Car Deal Cancelled, Feb 18 p

June 17 9 56
Port of New York Authority:
Car Bids Returned, Feb 25 p 10; Apr 15 p 35; To
Receive Bids, Apr 22 p 28; May 8 p 47
NYNH&H Commuter-Car Deal Cancelled, Feb 18 p
55; New Car Leasing Plan, May 20 p 24
Plan to Erect World Trade Center; Court Decisions,
Feb 25 p 10; Apr 15 p 35
Power Converter; Rockwell Mg. Co., Apr 15 p 34*
Plan to Erect World Trade Center; Court Decisions,
Feb 25 p 10; Apr 15 p 35
Power Converter; Rockwell Mg. Co., Apr 15 p 34*
Power Supress, Inc., Solid State Sine Wave Inverters,
Jan 7/14 p 119*
Power Supply:
Brushless Generators; Safety Elec. Equip. Corp.,
Jan 7/14 p 119*
Inverter; Power Sources, Inc., Jan 7/14 p 120
Power Tools, Ingersoil-Rand, Apr 1 p 25
Preco Methanol-Fusled Trailer Heater, Mar 25 p 80
Prefabricated Mobile Roomettes, Jan 7/14 p 119*
Preformed Line Prod. Co.: Guy Guard, Jan 7/14 p 120
President Kennedy's Transportation Program (See
Transportation Program of President Kennedy)
Price-Fixing, Companies Indicted for, Apr 15 p 40
Prices: Material Price Index, 1953-62, Jan 7/14 p 93;
January, Feb 25 p 10; April, May 20 p 7
Pricing (See Rate Making)
Prodelin, Inc.: Radio Antenna, Feb 18 p 50
Public Relations:
CN Showcase at Montreal, Mar 4 p 34*
Cuban Prisoner-Exchange Ransom Goods Handled
Free, Jan 21 p 36; Apr 8 p 71; May 6 p 47; June
17 p 56
Effective Image First Requirement for Success, May
27 p 16*
RR PR Good and Getting Better, June 17 p 34
Pullman-Standard:
Cars, Hydroframe-60 Box, Found Safe by ICC Examiner, May 13 p 9*
Cars, Trough-Hatch Covered Hopper, Jan 21 p 19*
Markets for RR Equipment Studied, Apr 8 p 24
Order Backlog, Apr 15 p 40
Passenger Shops Expanded, Apr 1 p 12*
Rapid-Transit Cars for Boston MTA, Mar 4 p 16*
Southern 50-Ft. Cushion Underframe Box Cars, May
27 p 16*
Requipment for AID Program, June 10 p 48
Years 1962, Apr 29 p 68
Purchases and Stores:
Maintenance and Stores for Boston MTA, Mar 4 p 16*
Southern 50-Ft. Cushion Underframe Box Cars, May
27 p 18*
Pump, Dorr-Oliver Slurry, June 3 p 36
Us. RR Equipment for AID Program, June 10 p 48
Years 19

Apr 29 p 68 Pyle-National Sign Lighter, Jan 21 p 21*

Quebec North Shore & Labrador: Cost of Ore Train Operations, June 3 p 34

REA Express:
Container Service, Coast-to-Coast, Jan 28 p 16, p
21*; Mar 11 p 36*; June 24 p 27* (Unit-Haul)
Foundation for Single Agency LCL Plan, Apr 29 p 70
Interview with W. B. Johnson, Jan 28 p 17*
Key-Point Terminals, Jan 21 p 13*; Mar 4 p 36
Survival Fight Won, Jan 28 p 16*, p 17*; June 17 p
40

49
Terminal, Circular, at Savannah, Jan 21 p 13*
Racine Hydraulics & Machy., Inc.: Anchor Applicator,
Mar 11 p 40*
Radar Proposed as Safety Device on Japanese HighSpeed Line, Feb 4 p 36

Radio:

Emergency and Branch Line Communications System; Hammarlund Mfg. Co., May 20 p 50*
Helps NP Maintain Buildings, Mar 18 p 23*
Installations in 1962, Jan 7/14 p 104
Miniquip Two-Way, Jan 7/14 p 104
Miniquip Two-Way, Jan 7/14 p 104
On Hammarland Prodelin, Feb 18 p 50
Radio-Controlled Switching Locomotives Used at dupont Plant, Jan 28 p 32*, Apr 22 p 7
Radio-Controlled Tractor-Shovel; USS, Feb 4 p 36
Radio-Cong. of America: Solid-State Microwave, May 27 p 76
Radio Transmitter, Hand-Held; Gen. Elec., Apr 15 p 33*
Radioactive Materials:

33* dioactive Materials: AREA Report on Handling of, Mar 25 p 46 Conference on Transportation of, Feb 18 p 56 Safe Ride for Burial of Waste, May 26 p 78*

Rail: Effect of Increased Car Load Limits on, Jan 7/14 p 36 Flame-Hardened, on Curves, AT&SF Tests, Feb 4

p 36
Flame-Hardened, on Curves, AT&SF Tests, Feb 4
p 18*
JNR Tokaido Line, June 3 p 19
Renewal Estimate for 1963, Jan 7/14 p 34
Renewals for 1962, Jan 7/14 p 34
Welded:
AREA Reports on Economy of Using, Mar 25 p 47
Causes Revision in Track Circuits, Jan 28 p 52
Growth in Use of, Jan 7/14 p 36
Rail Anchor Applicator; Racine Hydraulics & Machy.,
Mar 11 p 40*
Rail Anchor Cart; Ry, Maint, Corp., Mar 18 p 28*
Rail-Cropping Units; StL-SF, May 27 p 74*
Rail-Highway Conversion Unit; W. T. Cox Co., Mar 11
p 41*
Rail Joint, Johnson Rubber Insulated, Feb 11 p 30*
Rail Joint Straightener, RMC, Mar 11 p 40*
Rail Joint Straightener, RMC, Mar 11 p 40*
Rail Joint Used on JNR Tokaido Line, June 3 p 22*
Railroad Accessories Corp.:
DC Converters, Mar 18 p 28
Magnetic Detector, Jan 21 p 21
Sectionalizing Switch, Feb 11 p 30*
Railroad Electronic Laboratories of Omaha, Inc.:
Talk-back Speaker, June 3 p 25; Telephone Set, June 10 p 41
Railroad Public Relations Association Cancels Con-

Talk-back Speaker, June 3 p 25; Telephone Set, June 10 p 41 Railroad Public Relations Association Cancels Convention, June 17 p 7 Railroad Retirement Account: Interest Earnings, Proposal to Increase, Feb 11 p 10 Settlement of Military-Service-Credits Controversy Proposed, Feb 11 p 10 Railroad Retirement Act: Amendments Proposed, Feb 11 p 10 11 n 10

11 p 10 Railroad Retirement Board: Annual Report, May 6 p 48

Railroad Retirement Tax Increase Proposed, Feb 11 p 10 Railro

p 10 Railroad Supply & Equipment, Inc.: Sliding Roof for Hopper Car, Apr 1 p 21* Railroad Transportation Institute at Chicago, May 27

Railroad Transportation institute at Chicago, May 27 p. 80
Railroad Unemployment Insurance Account: Proposal to increase Interest Earnings, Feb 11 p 10
Railroad Unemployment Insurance Act: Amendments Proposed, Feb 11 p 10
Railroad Unemployment Insurance Tax Increase Proposed, Feb 11 p 10
Railroad Yardmasters of America Wage Case Settled, Apr 22 p 34
Railroading Arter Hours with Jim Lyne, Jan 7/14 p. 72; Jan 21 p 25; Jan 28 p 30; Feb 4 p 24; Feb 11 p. 27; Feb 18 p 46; Feb 22 p 58; Mar 4 p 24; Mar 11 p. 30; Mar 18 p 15; Mar 25 p 64; Apr 1 p. 35; Apr 8 p. 61; Apr 15 p. 30; Apr 22 p. 18; Apr 29 p. 54; May 6 p. 25; May 13 p. 29; May 20 p. 17; May 27 p. 65; June 3 p. 24; June 10 p. 23; June 17 p. 35; June 24 p. 85
Railroading After Hours with Jim Lyne, Purpose Behind, June 17 p. 50
Railroadis: U.S.'s Busiest Business, Feb 25 p. 80†

Railroading After Hours with Jim Lyne, Purpose Behind, June 17 p 50
Railroads: U.S.'s Busiest Business, Feb 25 p 80',
Railway Age:
Article Reprinted in Reader's Digest, Jan 7/14 p 122
Cover on Feb 11 Issue; Correction, Feb 18 p 56's
Review and Outlook Issue Praised, Mar 4 p 271
Railway Equip. & Methods Co.; Air-Pressure Gun,
Mar 11 p 42
Railway Labor Act;
Changes Needed; Charles Luna on, Feb 4 p 12's;
L. J. Wagner on, Feb 18 p 10
Inadequacies of, Apr 15 p 13, p 37
Railway Labor Executives Association:
Advertising Campaign to Promote Investigation of
RR Finances, Jan 7/14 p 126
Misleading Information on RR Poverty, Jan 21 p 38†
Position on Minimum Rates Bill, Apr 29 p 10
Views on Railroad Situation, Apr 20 p 68
Railway Maintenance Corp.
Railway Maintenance Corp.
Rail Joint Straightener, Mar 11 p 40's
Track Serap Loader, Mar 18 p 28's
Rail Joint Straightener, Mar 11 p 40's
Track Serap Loader, Mar 11 p 40's
Track Serap Loader, Mar 11 p 40's
Railway Operations in 1962, Jan 7/14 p 87's
Railway Operations in 1962, Jan 7/14 p 87's
Railway Operations in 1962, Jan 7/14 p 87's
Railway Progress Institute:
Interview with J. D. Cannon, Feb 25 p 52's
Minimum Rate Bill Supported by, May 20 p 53
Number of Plants and Employees, May 20 p 53's
TO Coordinate Legislative Activity in Behalf of RRs,
May 13 p 37; June 3 p 29
Railway Supply Industry:
Outlook for, Feb 11 p 36; Feb 25 p 52's
Should Support Kennedy Program for Own Good,
Feb 4 p 38';
To Actively Support RR Legislation, May 13 p 37;
June 3 p 29
Railway Systems and Management Association:
Integral Trains Seminar, June 3 p 32
Materials Management Seminar, Apr 22 p 24

Railway Systems and Management Association: (Continued) Refuse Removal System; Tri-City Equip. Co., May 27

Paperwork and Communications Automation Seminar, Apr 8 p 53
SURCOM Proposal Outlined, Apr 8 p 50
TOFC and Containerization Seminar, May 8 p 44
Railweight System, Kellogg Co. to Install, Feb 4 p 36
Ramp, Portable Yard; Conrad Equip. Co., Mar 25 p

Rapid Transit: (See also Automated Trains; Mass Transport, Names of Cities; Subways)

ASME-EEEE Conference, Feb 18 p 32; May 6 p 38
Cars Ordered in 1962, Jan 7/14 p 105
Cars, Potential Market for, Jan 7/14 p 128; Feb 18

p 25 Computers an Aid in Planning, May 6 p 40 Mass Transport Demonstration Loans, Jan 28 p 54; Feb 4 p 7; Feb 11 p 36; Feb 18 p 20, 22, 24; Mar 4 p 19; May 13 p 40 MTA of Boston Program, Mar 11 p 7 NYCTA Proposes Routes for Queens, Mar 4 p 19 Philadelphia-South Jersey Line Approved, Feb 25 p 72-4 np 15 p 7

Philadelphia-South Jersey Line Approved, Feb 25 p
78; Apr 15 p 7
Standard RRs Interest in, Feb 18 p 584
Toronto Area Rail Lines Study, Apr 8 p 7
Westinghouse Air Brake Co. Booklet, Apr 15 p 40
Wins City and State Support, May 20 p 13
Rate-Makers, A Typical Puzzle for, Feb 4 p 32; Apr 1
p 27
Rate Making:
Are Some Long-Haul Rates Too Low?, Feb 11 p 22;
Mar 4 p 261
Competitive Rates; J. Langdon, Jr., on, June 17 p 53
DTMS Simplified Plans, Feb 4 p 11; Feb 25 p 73;
Mar 25 p 58
Experimentation, Shippers Views on, May 27 p 14

Competitive Arates; J. Langdon, Jr., on, June 11 p 53
DTMS Simplified Plans, Feb 4 p 11; Feb 25 p 73;
Mar 25 p 58
Experimentation, Shippers Views on, May 27 p 14
Flexible Structure Needed, May 27 p 82
Ford Motor Co. Auto-Parts Rates, June 3 p 9*
France Modernizes Rate Structure, Apr 22 p 16*
Fully-Distributed Costs; M. J. Roberts on, Apr 15 p 40
Guides for, June 24 p 102†
Interpretations of Rate-Freedom Provisions of
Transportation Act of 1958: Supreme Court Upholds Competitive Rate-Making in Sea-Land Rate
Case, Apr 29 p 9
Minimum Rates Legislation (See Minimum Rates
Legislation)
Modernization Tempo Quickens, Jan 7/14 p 53*
Moves RRs Would Make If They Could, Jan 21 p 10
Simplified; Success in Cuban Crists, Feb 4 p 11
Trend-Correction, Apr 8 p 74†
Using Cost and Rate Data to Calculate Effective
Prices, Apr 1 p 27
Rate of Return:
Year 1952, Feb 18 p 7
Years 1953-62, Jan 7/14 p 94; Chart p 95*
Rate Structure, France Modernizes, Apr 22 p 16*
Rates, Freight:
Coal, on RRs, Pipelines Held Key to, June 3 p 31
Coal, to Waukegan, Il., Under Investigation, Mar 4
p 36
Developments in 1962, Jan 7/14 p 88
East-West Divisions Case, Apr 8 p 13

Coar, to waukegan, III., Under Investigation, Mar 4 p 38
Developments in 1962, Jan 7/14 p 88
East-West Divisions Case, Apr 8 p 13
Effect of European Common Market on, Apr 22 p 18
Grain, on Southern, Cleared by ICC, Jan 28 p 9; Feb
4 p 34; Single-Car Rates Effective, Mar 4 p 36;
Mar 1 p 48; Cleared by Supreme Court, Apr 22 p
30; Reopened by ICC, Apr 29 p 10
Incentive, for Auto-Parts, June 3 p 9*
ICC Burden of Proof Determination, June 24 p 10
ICC Index of Average Rates, Feb 18 p 30
'Load and Go' Military Rates, Feb 4 p 11
Long-Haul; Are Some Too Low?, Feb 11 p 22; Mar
4 p 261

Long-Haul: Are Some Too Low?, Feb 11 p 22; Mar 4 p 261
L&N Cuts Hay Rates to Drought Areas, Feb 11 p 36
Lumber Incentive Rates Cleared by ICC, Mar 4 p 28
Military, Encourage Big Loads, Mar 25 p 58
Port Differentials, Supreme Court Condemns ICC
Order Upholding, May 27 p 10; ICC Seeks Rehearing, June 17 p 56
Trainload, on Coal; NYC-PRR-P&LE-P&S, Mar 18 p
17; Apr 6 p 71; Apr 15 p 20, p 40; Apr 22 p 31*;
May 6 p 148
Transcontinental Divisions Case, Apr 8 p 13
Reader's Digest Panel Discussion on the Transportation Crisis, Jan 21 p 32
Reader's Digest Reprint of Railway Age Article, Jan 7/14 p 122
Reading:

7/14 p 122
Reading:
B&O Studies Relationship with, May 13 p 7
Cars, Commuter, May 6 p 34*
Commuter Service Improvements, Jan 7/14 p 126
Export Coal Sales Promoted, June 17 p 44*, p 50
Fox Chase Line Electrification Authorized, Jan 7/14
p 126
Passenger Losses Cause 1062 Deficit, Mar 4 p 36
Passenger Service Improvements, Feb 11 p 36
Perlman Request to Serve on Board Rejected by
ICC, June 10 p 7
Rail-Truck Combine Speeds LCL, Apr 29 p 60*; May 6 p 47
Scale, Automatic, to Change Yard Operations, Apr 22 p 34

22 p 34 TOFC Service; Chicago-Philadelphia, May 6 p 7 Trailers, New, Delivered to, May 6 p 47 TWU Strike Causes Commuter Increase, Jan 28 p 54 Real Estate Deals Raise RR Revenue, May 27 p 33
Reciprocity, Ben Heineman on, Apr 22 p 24
Rectifier, US&S Style RC-1, May 20 p 49*
Reed Eng.: Inspection Vehicle, Feb 18 p 49*
Reflector, Microwave Passive; Rohn Mig. Co., Feb 18
p 50*

p 50 * Refrigeration Problems in Handling Perishables, Mar 18 p 16 (TOFC); Mar 25 p 80 Refrigeration Units: Cooltainers Handle Fruit Shipment to Switzerland, Feb 4 p 27 Frigikar Power Units, Apr 8 p 65 Partlow Thermal Sensing Element, Jan 28 p 42 * Thermo King, for Trailers, Jan 28 p 41 *

Refuse Removal System; Tri-City Equip. Co., May 27 p 75
Regulation, Economic; Effect on Selection of Transport Equipment, Mar 11 p 48; Apr 8 p 21
Regulatory Agency Chairmen Meet, Feb 4 p 36
Regulatory Agency Members, TAA Recommends Salary Increase for, Mar 11 p 48
Regulatory Framework for RRs Makes Transportation Cost Too Much, June 3 p 36
Remote Control Locomotive Operation (See Locomotives: Remote Control Operation)

Research:

AAR Engineering, 25-Year Review of, Mar 11 p 16*
Staff Research on StL-SF, June 10 p 13*
U.S. Dept. of Comm. Transportation Program, Jan
21 p 12; Feb 11 p 38; June 3 p 36
Views of C. E. Tack on, Mar 25 p 54*
Research Center at St. Charles; ACF, Apr 8 p 66*
Research Prod. Mfg. Co.: Incinerating Toilet, Apr 8 p
65*

Research Prod. Mfg. Co.: Incinerating Toilet, Apr 8 p 65.*
Revenue Per Passenger-Mile, 1953-62, Jan 7/14 p 91
Revenue Per Passenger-Mile, 1953-62, Jan 7/14 p 91
Revenue Per Ton-Mile, 1953-62, Jan 7/14 p 91
Revenues and Expenses:

Dining Car, in 1962, June 17 p 10
Estimate for First Quarter, May 20 p 55
Quarterly Figures for Individual Roads, Mar 25 p 66; May 27 p 34
Revenues of Carriers Regulated by ICC, 1961-62, Jan 7/14 p 126
Revenues, Rail; Ratio to National Income, Mar 11 p 10
Rock Island Motor Transit Co. Seeks to Operate as Full-Fledged Common Carrier, Apr 22 p 7
Rockwell Mfg. Co.: Power Converter, Apr 15 p 34*
Rohn Mfg. Co.: Power Converter, Apr 15 p 30*
Rohn Mfg. Co.: Obstruction Lights, May 20 p 49*
Rohn Mfg. Co.: Dower Converter, Apr 15 p 50*
Roller Bearings, Low Temperature Performance of Greases in, May 20 p 30
Rove, Stiding, for Hopper Cars, Apr 1 p 21*
Roomettes, Mobile; Smalltex, Inc., Jan 7/14 p 119*
Rope, Wire; Macwhyte Wire Rope Co., Feb 11 p 30
Rowe Prod., Inc.: 'One-Coat' Epoxy, June 24 p 93
Rule, Telescopic; Tele-Scale, Inc., Jan 25 p 42*
Rust Remover; Corrosion Control Co., Jan 21 p 22
Rutland Abandonment, Status of, May 6 p 47

SKF Industries Wins ARAM Golden Spike Award, June 3 p 36; June 17 p 49*
Safety Elec. Equip. Corp.: Brushless Generators, Jan 7/14 p 119*
Safety Flooring, Mar 25 p 78*
Safety Glasses, May 6 p 41
Safety of Hydroframe-60 Box Cars; ICC Proposed Report, May 13 p 9*
Safety Tool for Positioning Crane Loads, Apr 22 p 28*
St. Lawrence Seaway: 1962 Navigation Season Hailed as a Record Year, June 3 p 36
St. Louis-San Francisco:
Employee Newspaper to be Reactivated, Jan 28 p 56
Interview with L. W. Menk, June 10 p 13*
Move from St. Louis to Springfield Studied, June 17 p 56
Rail-Cropping Units Developed by, May 27 p 74*
Seeks to Operate Barge Line, Mar 18 p 32; Apr 1 p 3 p 36

p. 56
Rail-Cropping Units Developed by, May 27 p. 74*
Seeks to Operate Barge Line, Mar 18 p. 32; Apr 1
p. 36
Staff Research on, June 10 p. 13*
St. Louis Southwestern: Truck Driver Blamed for Accident, Apr 15 p. 40
St. Louis Southwestern: Truck Driver Blamed for Accident, Apr 15 p. 40
St. Louis Transit Developments, Feb 18 p. 24
Sales and Operating Responsibilities; Coordination
Urged, June 10 p. 24
Sales Department, CRI&P Streamlines, June 3 p. 27
Sales Development Seminar; RPL, Feb 25 p. 53*
Sales Force, Do RRs Need a Second, Mar 18 p. 12*
Sales, Maintenance and Development of, Mar 18 p. 12*
Sales, Maintenance and Development of, Mar 18 p. 12*
Sales Meeting Tour Held in CPR Converted Passenger
Car, Apr 29 p. 70
Sales Deparitation, NYNH&H Changes, June 24 p. 96*
San Stanciss Rev. 11 p. 23; Feb 18 p. 16; Apr 1 p. 19;
Mar 19 p. 33; Ecconomic Benefits, May 20 p. 13; June 10 p. 48*
Savings (See Operating Economics)
Saw, Hack; Mathias Klein & Sons, June 10 p. 42*
Scale, Electronic, Reading to Install, Apr 22 p. 34
Scholarships Awarded by PRR, June 24 p. 100
Schroeder Bros. Corp.: Filter Bugsy, Feb 11 p. 29*
Scrap Loader, RMC, Mar 11 p. 41
Screw, Parker, Kalon Self-Tapping, June 24 p. 94
Sea-Land Service: Supreme Court Upholds Competitive
Rate-Making in Piggyback Case, Apr 29 p. 9
Seaboard Air Line:
Citrus Shippers' caction to TOFC, Feb 25 p. 62*
Forestry Program, Mar 18 p. 3; May 13 p. 40
Outlook for 1043 Earnings, May 6 p. 48
Passenger Business Up in 1962, May 20 p. 21
Passenger Business Up in 1962, May 20 p. 21
Passenger Business Up in 1962, May 20 p. 21
Passenger Business Up in 1962, May 20 p. 21
Passenger Stations Up and Apr 15 p. 14*
May 6 p. 46
Seutite Monorall, Alwey to Continue to Operate, Feb 4
p. 7; Presented to Century 21 Center, June 10 p. 48
Sentica Monorall, Alwey to Continue to Operate, Feb 4
p. 7; Presented to Century 21 Center, June 10 p. 48
Sentica Monorall, Alwey to Continue to Operate, Feb 4
p. 7; Presented to Century 21 Center, June 10 p. 48
Semtonductors: Solid Batte Techniques Applied to
Surfa

*Illustrated; † Editorial; ‡Letters from Readers

Shear, Ingersoll-Rand Electric, June 24 p 94* Shipper Statesmanship, May 27 p 84†

Shipper Statesmanship, may 27 p ont Shippers:
Citrus Shippers' Reaction to TOFC, Feb 25 p 62° How to Honor Mr. Anderson, Jan 28 p 58† Should Call the Turn on Transport Policy, Mar 25 p 86†; May 27 p 84† Traffic Polls, Jan 28 p 37; Feb 25 p 56; Mar 25 p 23; Apr 29 p 36, May 20 p 541, May 27 p 14°; June 10 p 401; June 24 p 21 Use of Rail Service; AARS Survey, June 17 p 53 Views on:

Use of Rall Service; AARS Survey, June 17 p 55
Views on:
Container Standards, Feb 25 p 56
Cutting Loss and Damage, Mar 25 p 23
Deregulation of Minimum Rates, May 27 p 15
Expansion of TOFC, June 24 p 21
Experimental Rates, May 27 p 14
How RRs Can Win Back Traffic, Jan 28 p 37
Legislative Roll of Shippers, May 27 p 15
Variable Per Diem and Incentive Per Diem LegisLation, Apr 29 p 36; May 20 p 54; June 10 p 40;
Shippers Regional Advisory Boards:
Car Shortages, Comments on, Apr 8 p 16
Freight Car Loading Estimates, Feb 11 p 19; Apr 1
p 9; Correction, Apr 8 p 10
Shops:

p 9; Correction, Apr 8 p 10
Shops:
N&W Car Repair Shop at Norfolk, June 10 p 33*
P-8 Expands Passenger Car Shops, Apr 1 p 12*
Side Fillers for Freight Cars; Evans Prod. Co., June
24 p 93;
Side Loaders, Dempster, Used by REA, Mar 11 p 36*;
June 24 p 27*
Sidning, Nailable Steel; Transportation Specialties Co.,
Mar 25 p 77*
Sign Lighter, Pyle-National, Jan 21 p 21*
Signal Rule Changes Proposed by ICC, Jan 7/14 p 49
Signal, US&S Crossing, Feb 4 p 25
Signaling:
Expenditures Planned for 1963, Jan 7/14 p 48
Installations in 1962, Jan 7/14 p 104
JNR Tokaido Line, June 3 p 22
Observations for 1963, Jan 28 p 52
Solid State Techniques Applied to, Jan 7/14 p 49
Signole Steel Strapping Co.: Non-Metallic Strapping,
Jan 28 p 41

Signode Steel Strapping Co.: Non-Metallic Strapping, Jan 28 p 41
Siltronics, Inc.: Voice Transmitter, May 20 p 49°
Skil Corp.: Lightweight Hammer, Mar 4 p 30°
Skil Corp.: Lightweight Hammer, Mar 4 p 30°
Slide Rule, Stacking; Olin Mathieson Chem. Corp., Mar 25 p 78
small Shipments Charges, Eastern Central Motor Carriers Association to increase, June 3 p 36
Smalleta, Inc.: Mobile Roomettes, Jan 7/14 p 119°
Snap-On Tools Mobile Floodlight, June 24 p 94
Snap-On Tools Mobile Floodlight, June 24 p 94
Snow Metector; Frontier Electronics, Feb 11 p 29
Snow Melter; Spray Prod. Co., Feb 18 p 50
Snow Melter Control; Spence Eng. Co., Feb 25 p 71
Snow Plow and Broom, Kalamazoo, Feb 4 p 25°
Soframac Protection Tape, Feb 11 p 30
Soldering Irons; Calg Lab., Inc., Mar 18 p 27°
Soo Line:

Do Line: Car-Cleaning System, Mobile, Jan 28 p 29* Offers to Substitute Mixed Trains If Passenger Trains are Discontinued, June 10 p 48 Proposes Centralized Station Agency Service, Apr 22 p 34

Seeks LCL Traffic, Feb 25 p 691 To Pay First Dividend, Feb 25 p Tree Planting Program, May 6 p Southern Pacific:

Tree Planting Program, May 6 p 47
Southern Pacific:
BRC Job Security Case, Jan 7/14 p 122; Mar 25 p
58; Anr 1 p 12; June 3 p 7
Car. Hy-Cube Bydra-Cushion Box, for Auto Parts,
May 13 p 12*
Care, Hydra-Cushion, Number of, May 27 p 7
Container Service, Experimental, Feb 4 p 11
Equipment Flanacing, Apr 29 p 65
Locomotives, Diesel-Hydraulic, Ordered from Alco,
Mar 18 p 7
Microwave; Fresno-Dunsmuir, Feb 4 p 31
Retraining Program for Clerks, Apr 1 p 12
Sale of Some CRISP Lines to Proposed, May 20 p 52
Training Bureau Operated by, Feb 11 p 28
Southern Railway:
Bond Offering Sold Out, June 10 p 7
Buys Controlling Interest in Coff2A, June 24 p 7
Car, Quad-pod, for Bulk Materials, Mar 18 p 18*
Care, Cushion Underframe Box, May 27 p 18*
Coach-Seat Reservation Plan, June 17 p 56
COMAR TOFC Operations, Feb 11 p 12; June 24 p 76
Control of Georgia & Florida Approved by ICC, Jan
7/14 p 126; Apr 8 p 72
Fireman-Off Plan, Feb 4 p 9; Court Ruling, May 20
p 55
Grain Rates, Volume, Cleared by ICC, Jan-28 p 9;

7/14 p 12c; Apr s p 72
Fireman-Off Plan, Feb 4 p 9; Court Ruling, May 20 p 55
Grain Rates, Volume, Cleared by ICC, Jan-28 p 9;
Feb 4 p 34; Single-Car Rates Effective, Mar 4 p 36; Mar 11 p 48; Cleared by Suprenze Court, Apr 22 p 30; Reopened by ICC, Apr 29 p 10 New Year Greeting, Jan 7/14 p 126
Spence Eng. Co.: Temperature Control, Jan 28 p 41
Sperry Rail Service: Discount Schedule for Rail Testing, Apr 8 p 70
Spokane, Portland & Seattle: R. S. Macfarlane Elected President, Jan 21 p 29
Spray De-Icer; Spray Prod. Co., Feb 18 p 50
Spray Paint Unit; Bink Mig. Co., Apr 22 p 27
Spray Prod. Corp.: Spray De-Icer, Feb 18 p 50
Spray Prod. Corp.: Wet Engine Start, Jan 21 p 22
Spray Washing of Locomotives; Mr., Jan 21 p 20*
Spray Spraking Corp.: Lubricator-Shim, Apr 8 p 66*
Stainless Steel Flexible Hose, Feb 25 p 72*
Standard Time Act, ICC Recommendations Regarding,

Standard Thomson Corp.: Hermostat Controls, May 6 p 42*
Standard Time Act, ICC Recommendations Regarding,
Jan 7/14 p 65; Bill to Modernize, May 6 p 47
Station Names, Feb 11 p 27; Feb 25 p 58; Apr 15 p 30;
May 6 p 25; May 20 p 17; June 10 p 23; June 17 p 35
Station, Passenger, at Savannah; ACL-SAL, Apr 15 p 14*

Statistics: Better TOFC Statistic: Urged, May 6 p 45 Freight Car Loadings No Longer a True B e Business Statistics: (Continued) Barometer, Apr 1 p 9, p 291; Correction, Apr 8

Barometer, Apr 1 p 9, p 29; Correction, Apr 8 p 10
Ton-Miles Introduced as a Factor in Weekly Car
Loadings, May 6 p 7, p 43
Steel Parts, Prehardened; Manganese Steel Forge,
Apr 15 p 34*
Steel Price Increase, P&S Men Cautious on, Apr 29

Steel Price Increase, P&S Men Cautious on, Apr 29 p 68
Sterling Refrigeration & Eng. Co.: Foam Material-Handling Equipment
Stranco Prod.: Wire Markers, Mar 4 p 30
Strapping, Non-Metallic; du Pont; Signode Steel Strapping Co., Jan 28 p 41
Strapping, Unit, of Plywood, Mar 25 p 44*
Strick Trailers: Equipment Leasing Operation, May 27 p 82; June 24 p 90

Strikes

Strikes:
Activity Continues, Feb 18 p 10
FEC Struck by Non-Ops, Jan 28 p 11; Feb 11 p 11;
Mar 18 p 36; by BLE, Apr 8 p 10; Fails to Stop
Trains, May 27 p 54*
Philadelphia Transit, Feb 11 p 36
Supreme Court Rules Strikes Over Grievances within
the Jurisdiction of the NRAB are Barred by RLA;
Léix Case, May 6 p 44
Stromberg-Carlson Subscriber Carrier, Feb 4 p 26*
Studebaker Hydraulic Prod. Co.: Shop Vise, May 20
p 50*
Subsidies:
Are Utilities Socialistic?, June 17 p 58†

ubsidies:
Are Utilities Socialistic?, June 17 p 58†
CMSRP&P Tax Payments to Support Local Airports,
Compared with Airline Payments, Apr 15 p 30
Chicago Skyway Toll Bridge in Trouble, June 17 p 56
Government Outlays for Transportation in 1963, Mar
18 p 10; Apr 1 p 38†; June 10 p 50, Opr 15 p 42†
Letter to Mrs. Mayne, A, June 10 p 50†
Payments for RR Losses on Uneconomic Branch
Lines Planned in Canada, Mar 18 p 36
Tax Contribution to Transportation Costs, Jan 7/14
p 62

Tax Contribution to 1:200.

Subways:
Construction in Montreal, Feb 18 p 22; Apr 1 p 14°;
May 6 p 33
Crewless, in Sweden, Feb 4 p 36
Operations in Toronto, Feb 18 p 24; Mar 18 p 36
SUPER CO., Formation of, Mar 18 p 33; Apr 22 p 33
Superintendence and Sales Responsibilities; Coordination Urged, June 10 p 24; June 17 p 16
Superior Graphite Co.: Dry Lubricant, Jan 21 p 22
Surface Communications, Inc. (SURCOM) Organized by

Surface Communications, Inc. (SURCOM) Organized by RSMA, Apr 8 p 50 Sweden, Crewless Subway Trains in , Feb 4 p 36 Sweeper, Electric; Wayne Mig. Co., Apr 29 p 55* Sweet, Martin J., Co.: Foam Material-Handling Equipment, Mar 11 p 12* Swiss Federal Rys. Operation Successful, Feb 25 p 51*

Switch Machine, US&S Yard, Feb 11 p 30° Switch, Sectionalizing; Railroad Accessories Corp.,

Feb 11 p 30*
Switchmen's Union of North America: Review of Wage
Negotiations, Jan 7/14 p 92
Switzerland, Containerized Grapefruit Shipped to, Feb

Switzerland, Comainerized Grapetrut Snipped to, Fee 4 p 27 Sylvania Electronic Systems: Car Identification Sys-tem, Mar 28 p 40° Systems Department a Training Spot for Future Man-agers, May 13 p 18

T

Tag, Dennison Permanent Identification, Feb 4 p 25

Tag, Dennison Permanent identification, Feb 4 p 25 Tampers:
Plasser Ry. Maint. Corp., Mar 11 p 40 RMC McWilliams, June 3 p 25*
Tape, Soframac Protection, Feb 11 p 30 Tariffs, France Modernizes, Apr 22 p 16*
Tax Contribution to Transportation Costs, Jan 7/14 p 62 Tax Investment Credit, 1962 Earnings Resulting from.

p 82
Tax Investment Credit, 1962 Earnings Resulting from, Mar 18 p 29
Tax Legislation Sought by AAR, Mar 4 p 10
Tax Payments of CMSTP&P to Support Local Airports Compared with Airline Payments, Apr 15 p 30
Tax Rate Plan on Corporate Incomes, RRs Oppose, Apr 1 p 36
Telephone and Telegraph Equipment:
Answer-Only Set; Automatic Elec. Co., Jan 21 p 21°
Call Diverter; Marcom Corp., Apr 1 p 26°
Duobinary Coding; Lenkurt Elec. Co., Apr 1 p 26°
Installations in 1962, Jan 7/14 p 104
Multiplex; Moore Assoc., Inc., Jan 7/14 p 120
Perforator Tage; Paper Mgrs. Co., Jan 7/14 p 120
Small-Capacity Exchange; Ö.S. Instrument Corp.,
May 27 p 76
Subscriber Carrier; Stromberg-Carlson, Feb 4 p 28°
Telephone Set, Low Inspedance; RR Electronic Laboratories of Omaha, June 10 p 41°
Teleprister Actuator; Chaskin-Dimmick, Apr 1 p 26°
Teleybones, Direct Dial; CN, Jan 21 p 36
Tele-Scale, Inc.: Telescopic Rule, Jan 28 p 42°
Teletype Corp.: Tape Reader, Mar 4 p 29°
Television Focuses on Work Rules Dispute, June 17
p 55
Temperature Controls:

p 55 p 55
Temperature Controls:
Partlow Corp., May 27 p 76*
Spence Eng. Co., Jan 28 p 41
Standard Thomson Corp., May 6 p 42*
Terminal Handling: Transfer Table Speeds TOFC
Loading, Feb 18 p 42*
Terminal Railroad Association of St. Louis:
Car Location Computer Center Tested, June 17 p 27*
Engineers Threaten to Strike, Feb 18 p 10
Terminals

Terminals: REA Express Circular, at Savannah, Jan 21 p 13* REA Express Key-Point, Jan 21 p 13*; Mar 4 p 36 Thermal Sensing Element, Partlow, Jan 28 p 42*

Thermo King Corp.: Trailer Refrigeration Unit, Jan 28 p 41*
Think BiG... Many in the Industry are Doing It, May 6 p 13 Thrall Car Mig. Co.: Southern Quad-pod Car, Mar 18

Thrall Car Mfg. Co.: Southern Quad-pod Car, Mar 1 p.18*
Ticket Collection on Boston MTA Cars, Mar 4 p.17
Ticket Validation, Automatic, LI to Test, Feb 4 p.7
Tie Are, Nordberg Mfg. Co., Mar 11 p.42*
Tie-Bed Scarifier; Kershaw Mfg. Co., Mar 11 p.41*
Tie Renewal Machine; Matisa Equip. Corp., Mar 11 p.42*
Ties:

Concrete, on JNR Tokaido Line, June 3 p 22* Concrete, Production in Argentina, Considered, Mar 18 p 36

Concrete, on JNR Tokaido Line, June 3 p 22*
Concrete, Production in Argentina, Considered, Mar 18 p 36
Renewal Estimate for 1963, Jan 7/14 p 34
Renewals for 1962, Jan 7/14 p 34
Renewals for 1962, Jan 7/14 p 34
Seasoning Tests, AREA Report on, Mar 25 p 46
Tiger Mg. Co.: Engine-Driven Winch, Jan 21 p 22*
Timetable, First Combined B&O-C&O, June 17 p 56
Tollets, Incinerating:
Ajax-Consolidated, Feb 18 p 49*
Research Prod. Mg. Co., Apr 8 p 65*
Toledo, Peoria & Western:
Carloadings vs. Tonnage, Apr 1 p 29;
Transfer Table Speeds TOFC Loading, Feb 18 p 42*
Tolls on Highway Use Wherever Congestion Occurs
Proposed, June 3 p 38†
Ton-Miles:
Estimate for 1963, Feb 11 p 36; Apr 1 p 9; Correction, Apr 8 p 10
Estimates for 1980 and 2000, Apr 8 p 72
Generated by Car Loadings (Weekly), May 8 p 7, p
43; May 13 p 35; May 20 p 51; May 27 p 77; June
10 p 43; June 17 p 51; June 24 p 95
Introduced as a Factor in Weekly Freight Car Loadings, May 6 p 7
TOFC-Container Predictions for 1975, June 24 p 17
Years 1963-62, Jan 7/14 p 88; Chart p 89*
Tools, Power; Black & Decker, Apr 29 p 55
Toronto-Area Rail Lines Study, Apr 8 p 7
Toronto Subway Operations, Feb 18 p 24; Mar 18 p 36
Tote Bins and Tote Till System Used by Amocc Chem.
Corp., Apr 29 p 26*
Track Liner; Fairmont Ry. Motors, Mar 11 p 41*
Track Motor Cars, ICC Amends Safety Regulations on Operation of, Jan 28 p 52
Track Liner; Fairmont Ry. Motors, Mar 11 p 41*
Track Scrap Loader, RMC, Mar 11 p 41
Track Structure; JMR Tokaido Line, June 3 p 19*
Track-Surfacing in '62; Outlook for '63, Jan 7/14 p 34
Track-Surfacing in '62; Outlook for '63, Jan 7/14 p 34
Track Creation of, June 3 p 36
Traftic Department Streamlined; CRI&P, June 24 p 7
Traffic Executives Association—Eastern Railroads:
New Military Rate Plan. Feb 25 n 23. Mar 26 n 58
New Military Rate Plan. Feb 25 n 23. Mar 26 n 58
New Military Rate Plan. Feb 25 n 23. Mar 27 n 76

Traffic Department Heorganiseu; NI III Desp. 96°

Traffic Department Streamlined; CRI&P, June 3 p 27

Traffic Executives Association—Eastern Railroads:
New Military Rate Plan, Feb 25 p 73, Mar 25 p 58

Traffic-Pole, Department Coordination Urged,
June 10 p 24; June 17 p 16

Traffic Folls, Jan 26 p 37, Feb 25 p 56; Mar 25 p 23;
Apr 26 p 36; May 26 p 54t; May 27 p 14*; June 10 p 40t, June 24 p 21

Traffic Publications, Feb 25 p 69

Traffic Research on St.L-SF, June 10 p 13*

Trailer Heater, Preco Methanol-Fueled, Mar 25 p 80

Trailer-on-Flat-Car Service: (See also Names of Companies Supplying Service; Flexi-Van Service; Automobile-Rack Service)
Accessorial Rates, RRS Cut Boosts in, Feb 25 p 77

Car Loadings:

Accessorial Rates, RRS Cut Boosts in, Feb 25 p 77
Car Loadings:
Estimate for 1963, Mar 4 p 9
New Record Established, Apr 15 p 7
Weekly, Jan 7/14 p 121; Jan 21 p 31; Jan 28 p 51;
Feb 4 p 31; Feb 11 p 31; Feb 18 p 51; Feb 25 p
73; Mar 4 p 31; Mar 11 p 43; Mar 18 p 31; Mar
25 p 79; Apr 1 p 31; Apr 8 p 67; Apr 15 p 35;
Apr 22 p 29; Apr 29 p 65; May 8 p 43; May 13
p 35; May 20 p 51; May 27 p 77; June 3 p 31;
June 10 p 43; June 17 p 51; June 24 p 95
Year 1962, Jan 7/14 p 88
Years 1955-62 (Charl), Jan 7/14 p 89
Citrus Shippers' Reaction to, Feb 25 p 62
COMAR; Southern's Rail-Truck Service, Feb 11 p 12;
June 24 p 76
Containerized Fruit Shipped to Switzerland, Feb 4
p 27

Containerized Fruit Shipped to Switzerland, Feb 4 p 27

Equipment Utilization, June 24 p 70

Interchange Rules Revised, Jan 28 p 56

ICC Investigation of, Jan 7/14 p 102 (Review of);
Mar 4 p 10; May 6 p 44; May 20 p 56; Comments
on Proposed Rules, June 24 p 17

Loading Rules for Open-Top Trailers, Feb 18 p 56

Mid-Year Survey of, June 24 p 18

Perishable Handling Problems; Outlook for Future,
Mar 18 p 16; Mar 2 p 18

Plagyback-Fishyback Service; NYC-Seatrain Lines,
May 6 p 16; Mar 25 p 80

Plans, Survey of, June 24 p 16, p 18

Plans, Survey of, June 24 p 16, p 18

Plans, Survey of, June 24 p 16

RSMA Seminar, May 6 p 44

Rates: Supreme Court Upholds Competitive RateMaking in Sea-Land Rate Case, Apr 29 p 9

Report Forms Used by Ca6O, May 6 p 45

Shippers' Views on Expansion of, June 24 p 17

Transfer Table Speeds Loading: TDEW Esb 18 p 42

24 p 17 Transfer Table Speeds Loading; TP&W, Feb 18 p 42* Trailer Refrigeration Unit, Thermo King, Jan 28 p 41*

railers: Changes in Construction for Perishable TOFC Rec-ommended, Mar 18 p 17; Mar 25 p 80 Cooltainer Used to Ship Fruit to Switzerland, Feb 4

Cooltainer Used to sup reaction p 27
Equipment Utilization, B&O Studies, June 24 p 72
Equipment Utilization, B&O Studies, June 24 p 72
Eighway Trailer Ind. Piggyback, Apr 29 p 55*
Number of RR-Owned Refrigerated, Mar 25 p 80
Open-Top, Loading Rules for, Feb 18 p 56

Trailers: (Continued)
Outlook for Use of, Apr 8 p 71
Perishable Handling Problems, Mar 18 p 16; Mar 25

Perishance ranching Problems, May 6 p 47
p 80
Reading Gets 30 New Trailers, May 6 p 47
Test Standard for Measuring Cooling Ability, Mar
25 p 80
Training Directors' RR Seminar, May 20 p 41
Training Directors, School for, Apr 22 p 34
Training Directors, School for, Apr 22 p 34
Training Of Employees:
MP Retrains Clerks for Automation, Apr 15 p 16*
NYC Management Training Program, Apr 15 p 18*
Program for P&S Personnel, Jan 7/14 p 33
Programmed Instruction, May 20 p 41
Selling Programs to Management, May 20 p 41
SP Clerks Retraining Program, Apr 1 p 12
SP Training Bureau, Feb 11 p 28
Systems Department a Training Spot for Future Managers, May 13 p 18
Trains:
Automated (See Automated Trains)

Automated (See Automated Trains)
High Speed, Over Medium Distances Predicted, June
24 p 86

24 p 86 Integral (See Integral Coal Trains) Plastic, Tested in Germany, Mar 18 p 32* Trans-Missouri-Kansas Shippers' Board Officers, Feb 25 p 78

Trans-Missouri-Kansas Shippers' Board Officers, Feb 25 p 78
Transport Leasing Co.: Trough-Hatch Covered Hopper Cars, Jan 21 p 19*
Transportation Act of 1958:
Rate-Freedom Provisions (See Rate Making)
Service-Abandonment Provisions Aid RRs in Cutting Losses, May 20 p 183 Proposed by President Kennedy, Mar 11 p 44; Mar 18 p 26; Mar 25 p 10
Transportation Act of 1963 Proposed by President Kennedy, Mar 11 p 44; Mar 18 p 26; Mar 25 p 10
Transportation Association of America:
Cost of Daylight Saving Time to RRs, Apr 29 p 70
Employment in Transportation Industry, June 10 p 48
National Transportation Institute, Feb 4 p 8
Pay Increase Recommended for Regulatory Agency Members, Mar 11 p 48
Seley Award Given to A. C. Anderson, Jan 28 p 58;
Feb 4 p 10
Service Service

ortation Education, Northwestern University

Transportation Education, Northwestern University
Transportation Center to Survey, June 24 p 100
Transportation Education, Professional, Needed, Apr. 22 p 31; June 3 p 36
Transportation integrated: Gee also Diversification of Transportation, integrated: Gee also Diversification of Transportation, Ocomm. Murphy Favors More Intermodal Coordination, Apr 22 p 10
Coordination Key in Mass Transport, Feb 18 p 19
How to Honor Mr. Anderson, Jan 28 p 178
Reading Rail-Truck Combine Speeds LCL, Apr 29
p 80% May 8 p 47
Removal of Restrictions Against Intermodal Transport Urged, June 24 p 86
Southern's COMAR Rail-Truck Service, Feb 11 p 12;
June 24 p 76
Transportation Management, Harvard Business School Transp

Transportation Management, Harvard Business School to Study Methods of Improving Teaching of, June 24 p 100

to study methods of improving reaching of, June 24 p 100

Transportation Policy:
Apathy of Business Leaders on, Mar 25 p 86†
Are Utilities Socialistic?, June 17 p 58†
Government's Lopsided Promotion, Apr 15 p 42†;
Apr 29 p 72†
How to Honor Mr. Anderson, Jan 28 p 58†
Letter to Mrs. Mayne, A, June 10 p 50†
Politics Says 2 + 2 = 5, Mar 11 p 50†
Shipper Statesmanship Needed, May 27 p 84†
Year of Dedication, A, Jan 7/14 p 128†
Transportation Program of President Kennedy:
Mass Transit Bill, Feb 25 p 9; Mar 4 p 18, p 36; Apr
1 p 19; Apr 8 p 7; Apr 15 p 10; May 6 p 33, p 47
Minimum Rates Legislation (See Minimum Rates
Legislation)

I p 19; Apr 8 p 7; Apr 15 p 10; May 6 p 33, p 47
Minimum Rates Legislation (See Minimum Rates
Legislation)
Mislabeled an AAR Project, Feb 4 p 38†
Outlook for, Jan 7/14 p 31°; Feb 4 p 11; Apr 1 p 34
Transportation Act of 1993 Submitted, Mar 11 p 44;
Mar 18 p 26, p 32; Mar 25 p 10
Wheeler, Burton K., on, Feb 11 p 12
"Word from the Top" on, Jan 21 p 10; Jan 28 p 10;
Feb 11 p 19
Transportation Research Forum of New York: J. Langdon on Rate Making, Apr 8 p 71
Transportation Research Frogram of Dept. of Commerce, Jan 21 p 12; Feb 11 p 38†; June 3 p 38
Transportation Speciatities Co.: Nailable Steel Skiding,
Mar 25 p 77
Travel Center in Minneapolis, Jan 28 p 56
Trenching Machines: Charles Machine Works, Feb 18
p 50°; June 10 p 42°
Trends... All Important, Apr 8 p 74†
Tri-City Equip. Co.: Refuse Removal System, May 27
p 75
Tri-State Transportation Comm.: Report on the Status

p 75
Tri-State Transportation Comm.: Report on the Status
of Railroad Suburban Equipment, June 3 p 17
Truck, Six-Wheel Car, Nears Road Test, Mar 25 p 54*
Tunnel on Bergen Ry. in Norway, Apr 22 p 25

U.S.'s Busiest Business, Feb 25 p 80†
Underframes (See Cushioning Devices)
Union Asbestos & Rubber Co.:
Adjustable Panels, Jan 28 p 41*
Hand Brake, Feb 18 p 49*
Union of Soviet Socialist Republics:
Emphasis on Modern RR Equipment, Apr 1 p 36
RR Officers to Visit Canada, Feb 25 p 7

Union Pacific:
Approves IC Industries Acquisition of IC, Jan 21 p 7
Cars, Aluminum Headend, Jan 21 p 16*; Correction, Union Pacific:
Approves IC Industries Acquisition of IC, Jan 21 p 7
Cars, Aluminum Headend, Jan 21 p 16*; Correction,
Feb 4 p 36
Locomotives, 5500-Hp. Alco and 5000-Hp. GE DieselElectric, June 17 p 46*
Merger Agreement with CRI&P and SP, May 20 p 52;
May 27 p 32
May 27 p 32
Passenger Station at Pomona, Cal., May 13 p 40
Union Shop Employees Need Not Pay Dues Used for
Political Purposes; Supreme Court Decision, May
20 p 52
Union Tank Car Co.:
Car, 50,000-Gal. Tank, Apr 22 p 12*
Value Analysis, Importance of, Apr 22 p 26
United States Borax & Chem. Corp.:
Fire Retardant, Mar 11 p 40
Microbicide, June 24 p 94
United States Department of Commerce:
Car Buying Predictions for 1963, Mar 4 p 9
Plowman, E. G., Named Deputy Under Secretary for
Transportation (Policy), Mar 11 p 45*
Transfer of Transportation Promotional Functions of
Other Agencies to Undersecretary for Transportation Asked, June 17 p 35
Transportation Research Program, Jan 21 p 12; Feb
11 p 38; June 3 p 38
United States Department of Justice:
Antitrust Suit Against GMC, Jan 21 p 11
Asks Reopening of C&O-B&O Control Case, Apr 1 p
10
United States Freight Co.: Earnings and Traffic, Apr

Asias Reopening of C&O-B&O Control Case, Apr 1 p 10 United States Freight Co.: Earnings and Traffic, Apr 22 p 34 United States Instrument Corp.: Telephone Exchange, May 27 p 76 United States Steel Corp.: Cars, Cylinder-Equipped, Feb 11 p 14* Radio-Controlled Tractor-Shovel, Feb 4 p 36 United States Surreme Court.

Radio-Controlled Tractor-Shovel, Feb 4 p 36 United States Supreme Court: ICC Order Upholding Port Differentials Condemned, May 27 p 10; ICC Seeks Rehearing, June 17 p 56 Refuses to Review Work-Rules Case, Jan 7/14 p 9; Jan 28 p 9; Mar 11 p 9 Rule on Political Refunds for Unionists Liberalized, May 20 p 52 Southern's 'Big John' Grain Rates Cleared, Apr 22 p 30

Southern's Big John' Grain Rates Cleared, Apr 22 p 30
Strikes Over Grisvances Within the Jurisdiction of the NRAB Barred by RLA: L&N Case, May 6 p 44
Upholds Competitive Rate-Making in Ses-Land Rate
Case, Apr 29 p 9
Unitized Trains (See Integral Coal Trains)
Unity; C. L. Riles Elected President, Jan 21 p 29
Universal Metal Hose Co.: Flexible Hose, Feb 25 p 72°
Upper Merion & Plymouth Offers TOFC Service, Apr 22 p 34
User Charges:
Collection of Tolls on Highway Use Wherever Congestion Occurs Proposed, June 3 p 38†
Legislative Recognition of Principle of, Jan 7/14 p
38
President Kennedy Again Urges, Jan 21 p 12

President Kennedy Again Urges, Jan 21 p 12 Progress in Establishing, May 27 p 80

Value Analysis Pays Off; Vapor Corp., Apr 22 p 25; Union Tank Car Co., p 26 Value Line Investment Survey: RR Earnings, Feb 11

Value Line Investment Survey: RR Earnings, Feb 11 p 16
Valve, Stop-Check; Vapor Corp., Apr 1 p 25
Van Prod. Co.: Air Dryer-Receiver, Jan 21 p 22
Vandalism, Campaigns Against, May 6 p 48
Vapor Corp.:
Fuel Oil Heater, June 24 p 94
Stop-Check Valve, Apr 1 p 25
Value Analysis Engineering Program, Apr 22 p 25
Water-Tube Boiler, Feb 18 p 49
Vibrators, Car:
Branford Co., Apr 1 p 25
Martin Eng. Co., Feb 25 p 72
Vise, Shop; Studebaker Hydraulic Prod. Co., May 20
p 50
Voltmeter, Hewlett-Packard AC, June 10 p 41
V

Voltmeter, Hewlett-Packard AC, June 10 p 41°

Wabash:
Buildings, Pole-Type, for Car Painting, May 13 p 19*
N&W Lease Approved by ICC Examiner, Feb 11 p 7;
Feb 18 p 55 Apr 1 p 10; Apr 22 p 22
Washing Facility for Locomotives; MP, Jan 21 p 20*

Washington, D.C.:
HHFA Mass Transport Demonstration Grant for
Small Bus Operation, Feb 11 p 36
NCTA Mass Transport Plan, Feb 18 p 19, p 24; Mar
4 p 19; June 3 p 16
Washington, D.C.-Boston Transportation Study, Richardson Dilworth Named Chairman of, June 3 p 13
Watching Washington with Walter Taff (See page 10
of each issue except Feb 18 p 30; May 6 p 44;
May 20 p 52; June 3 p 32; June 10 p 46)
Water Carriers Seek RR Help in Defeating Bills, Apr
1 p 36

Water Carriers Seek RR Holp in Defeating Bills, Apr 1 p 36 Waterway User Charges Urged by President Kennedy, Jan 21 p 12 Wayne Mig. Co.: Power Sweeper, Apr 29 p 55° Wear Plate; Mid.-West Forging & Mig., Apr 15 p 33 Weed Killer; Nalco Chem. Co., Mar 11 p 41° Weeds Sprayer; Pepco Eng. Prod., Mar 11 p 41° Weeds (See also Brush) Week at a Glance (See page 5 of each issue) Weighing in Motion System, Reading to Install, Apr 22 p 34 Weighing System, Railweight, Kellogg Co. to Install,

p 34
Weighing System, Railweight, Kellogg Co. to Install,
Feb 4 p 36
Welded Rail (See Rail: Welded)
Welder, Arc; Westinghouse Elec. Corp., Apr 8 p 65*
Welder Package; Hobart Bros. Co., June 3 p 25*
Welding Rods; American Brake Shoe, Mar 18 p 28*
Western Pacific: Integrated Information System, Feb
11 p 28
Western Railroad Truck Lines Association: Officers,
Mar 4 p 36
Western Railroad Prake Co.:

Mar 4 p 36

Western RRs Have New Pass Plan, Apr 1 p 35

Western RRs Have New Pass Plan, Apr 1 p 35

Western RRs Have New Pass Plan, Apr 1 p 35

Western RRs Have New Pass Plan, Apr 1 p 35

Western RRs Have New Pass Plan, Apr 1 p 36

Rapid Transit Booklet, Apr 15 p 40

Union Switch & Signal Div..

Crossing Signal, Feb 4 p 25

Ohmmeter, May 6 p 41

Radio Controls in duPont Switchers, Jan 28 p 32°;

Apr 22 p 7

Radio Controls in Tractor-Shovel, Feb 4 p 36

Rectifier, Style RC-1, May 20 p 40°

Yard Switch Machine, Feb 11 p 30°

Westinghouse Electric Corp.:

Arc Welder Apr 8 p 65°

Lining Material, Mar 25 p 77°

Power Drive System, Jan 7/14 p 120°

Wheel Problems and Solutions Discussed at International Wheel Sets Congress, May 13 p 26

Wheel Problems and Solutions Discussed at International Wheel Sets Congress, May 13 p 26

Wheel Problems and Solutions Discussed at International Wheel Sets Congress, May 13 p 26

Wheel Problems and Solutions Discussed at International Wheel Sets Congress, May 13 p 26

Wheel Problems and Solutions Discussed at International Wheel Sets Congress, May 13 p 26

Whithe Pass & Yukon Buys Dissel Locomotives, Apr 29 p 70°

Whithehead & Kales to Build Freight Cars, May 13 p 7

Wiegand, E. L., Co., Car Thawer, Jan 7/14 p 19 willow & Williams Protective Coating, June 24 p 93

Winch, Engine-Driven; Tiger Mig. Co., Jan 21 p 22°

Wine Ry. Appliance Co.: Discharge Gate, May 27 p 76°

Wire Rope, Macwhyte Wire Rope Co., Feb 11 p 30

Wire Rope, Macwhyte Wire Rope Co., Feb 11 p 30

Wire Cope; Fuel Filter, Jan 21 p 22°

Wire Cope; Mac May 12 p 22 (Corrections Speaks Out. A, May 27 p 30\$

Labor-Management Negotiations, Jan 7/14 p 9, p
20°; Review of Case, Jan 7/14 p 91; Jan 28 p 9;

Conductor Speake Out, A, May 27 p 303
Labor-Management Negotiations, Jan 7/14 p 9, p
29*; Review of Case, Jan 7/14 p 91; Jan 28 p 9;
Feb 4 p 9; Feb 18 p 9; Mar 4 p 10; Mar 11 p 9;
Mar 18 p 8*, p 38f; Apr 8 p 9; Apr 15 p 13; Apr
22 p 9*, p 36f; May 6 p 9; Emergency Board Report, May 20 p 9*; June 10 p 9*; June 17 p 9*;
"CBS Reports" on, June 17 p 55; June 24 p 97
RRs to Press for Changes in, Jan 21 p 9
Rules Case, Step by Step, Mar 11 p 11
Southern's Fireman-Off Plan, Feb 4 p 9; Court Ruling, May 20 p 55
World's Busiest Railways', Mar 25 p 64
World's Largest Tank Car, Apr 22 p 12*
Wyandotte Chem. Corp.: Degressing Compound, Mar 4
p 30; Aluminum Cleaner, Apr 15 p 33; Cleaning
Pumps, Apr 22 p 27*

Yard Communication Installations in 1962, Jan 7/14 p 104 Yard Office Procedures Mechanized; L&N, Apr 8 p 55

Yards: Blson Yard; E-L-NYC&StL, Apr 29 p 13° Remote Control of Hump Engines in, Jan 28 p 52 Use of Presence Detectors in, Jan 28 p 52 Vou Ought to Know, Jan 7/14 p 128, Jan 21 p 36; Jan 28 p 56; Feb 4 p 36; Feb 11 p 36; Feb 18 p 56; Feb 25 p 78; Mar 4 p 36; Mar 11 p 46; Mar 18 p 36; Mar 25 p 84; Apr 1 p 36; Apr 8 p 71; Apr 18 p 40; Apr 22 p 34; Apr 29 p 69°; May 6 p 47; May 13 p 40; May 20 p 56; May 27 p 92; June 3 p 38; June 10 p 48; June 17 p 56; June 24 p 100 Young Spring & Wire Corp.: Telescopic Boom Crane, Feb 25 p 71

CURRENT PUBLICATIONS

American Labor Movement, The, Feb 18 p 48

British Steam Railways, Feb 18 p 48

Economics of Loyalty-Incentive Rates in the Railroad Industry, Mar 11 p 30; June 24 p 87

Giant's Ladder; David H. Moffat and His Railroad, June 24 p 87 Great Trains of All Times, June 24 p 87

Last Steam Locomotives of Western Europe, The, June 24 p 87

Metropolitan Transportation-1980, June 24 p 87

New York Port Handbook, 1963, June 24 p 87

PGE Railway to the North, June 24 p 87 i Pullman in Europe, Apr 8 p 61; June 24 p 87

Quest for Crisis, Feb 25 p 50*

Railway Track Connections or Points and Crossings,

Apr 1 p 28

Reprint of Record of Recent Construction No. 56—The
Atchison Topeka & Santa Fe Railway System Issued by Baldwin Locomotive Works, June 24 p 87

Story of London's Underground, The, June 24 p 87

Transportation: Economics and Public Policy, June 24 p 87 Transportation Renaissance, Mar 18 p 15; Apr 1 p 28

20th Century, Feb 18 p 48

Where are the Railroads and Subways Going ?, Feb 18 p 48

PEOPLE IN THE NEWS

[*Indicates photograph]

A

Abbott, Lucien M., Jan 28 p 48 Abbott, R. E., Jan 28 p 47 Abbott, R. H., Feb 25 p 74* Abernathy, M. B., Mar 11 p 47 Adams, B. W., Feb 18 p 52 Adams, Eaton, Mar 25 p 60 Adams, E. Robert, Apr 8 p 70; Apr 15 p

Adams, B. W., Peo 16 J 9 S
Adams, Eaton, Mar 25 p 90
Adams, E. Robert, Apr 8 p 70; Apr 15 j
39
Adams, Floyd R., Apr 29 p 53
Adams, James I., June 24 p 89
Adams, James I., June 24 p 88
Adbert, Floyd H., May 6 p 20
Adder, Russell L., Jan 7/14 p 82
Alder, Earl C., June 24 p 88
Albert, Floyd H., May 6 p 20
Alder, Russell L., Jan 7/14 p 82
Alder, Earl S. May 20 p 46
Allen, Clarence E., Apr 29 p 52
Allen, Clarence E., Apr 29 p 52
Allen, Clarence E., Apr 29 p 52
Allen, Grant S., May 20 p 46
Allen, John L., Apr 1 p 30
Allen, Wendell C., Mar 11 p 47
Allison, Howard E., Jr., Feb 25 p 74
Alms, J. J., May 15 p 28
Alter, Gabriel, June 24 p 88
Alter, Gabriel, June 24 p 88
Alterier, R. A., May 6 p 20
Anderson, A. G., Jan 28 p 58; Feb 4 p
10; Apr 29 p 53; May 6 p 20
Anderson, A. G., Jan 28 p 58; Feb 4 p
10; Apr 29 p 53; May 6 p 20
Anderson, Roy A., Mar 25 p 80
Anderson, Ronald L., June 24 p 89
Anderson, Ronald L., June 24 p 89
Anderson, Ronald L., June 24 p 88
Archer, Marry, Mar 25 p 80
Anderson, Charles G., Jan 28 p 47
Andrews, Nicolas J., Jan 7/14 p 82
Anderson, Charles G., Jan 28 p 47
Andrews, Nicolas J., Jan 7/14 p 82
Angle, Jay R., June 24 p 88
Archer, Maurice, May 13 p 28
Arrike, Harry, Mar 25 p 80
Armstrong, Charles F., Mar 25 p 59
Armstrong, Charles F., Mar 25 p 59
Armstrong, Charles F., Mar 11 p 46
Atkinson, Leon, Jr., Apr 8 p 70
Artwood, H. Brad, May 13 p 29
Autt, George T., Mar 11 p 46
Austin, J. A., June 24 p 88
Auten, J. M., Apr 29 p 52
Auglet, George T., Mar 11 p 46
Austin, J. A., June 24 p 89
Auten, J. M., Apr 29 p 52
Auglet, G. B., Feb 25 p 17
Aylward, D. E., Feb 11 p 35

R

Bacon, W. R., Jan 7/14 p 84
Baer, Robert A., Feb 11 p 34°, p 35
Bailey, Glyndon L., Feb 11 p 34
Bailey, Olyn R., Jr., Apr 28 p 52
Bailbe, George H., Mar 25 p 59
Bainbridge, William C., May 20 p 48
Baille, George H., Mar 25 p 59
Bainbridge, William C., May 20 p 48
Baird, John C., Jan 21 p 29
Baker, Carl W., Apr 8 p 70
Baker, Frank T., Jan 28 p 49
Baker, Kenneth O., Apr 18 p 39
Baker, Malcolm S., Feb 25 p 74; Mar 11
p 48
Baker, Mololm S., Feb 25 p 74; Mar 11
p 48
Baker, Roy E., June 3 p 30°
Baker, Roy E., June 3 p 30°
Baker, Roy E., June 3 p 30°
Baker, Roy E., June 3 p 35°
Ballou, W. C., Apr 22 p 33
Bamert, William, Apr 29 p 51°
Ballou, W. C., Apr 22 p 33
Bamert, William, Apr 29 p 51°
Banbury, Peter J., Feb 25 p 74°
Bancroft, Elwood A., Mar 11 p 47
Bannister, J. L., Jan 7/14 p 62
Bannon, J. P., Feb 18 p 52
Bantle, Frank J., June 24 p 89
Barber, Clyde, Feb 11 p 35
Barber, Warren G., May 6 p 20
Barkes, Howard, June 24 p 88
Barkesdale, Maury L., June 3 p 30
Barnett, E. E., Feb 18 p 52
Barthouse, W. M., Apr 22 p 32
Barr, A. S., Apr 15 p 39
Barr, Willard, May 20 p 46
Barrett, Robert Q., Feb 18 p 53
Barrett, Walter P., June 17 p 47
Barry, G. J., Apr 22 p 32
Bart, G. P., Jan 7/14 p 84
Bartley, George E., June 10 p 23

Easham, A. Thomas, Apr 22 p 32
Bason, George R., Mar 18 p 33
Bates, L. C., Mar 25 p 60
Battenfield, G. F., June 3 p 30
Bauer, B. J., Jan 21 p 29
Baukhages, Frederick E., Feb 11 p 34
Baumann, Charles R., Apr 29 p 51
Baylor, John T., June 3 p 30
Baya, H. R., Jan 28 p 48
Bean, Claude H., Feb 18 p 52
Beardsley, Ferria P., Jan 21 p 30
Beauchamy, F. A. Jr., June 24 p 89
Beachamy, F. A. Jr., June 24 p 89
Becker, E. P., June 24 p 88
Becker, E. P., June 24 p 88
Becker, E. P., June 24 p 88
Becker, Benneth U., Mar 18 p 33
Becquet, L., J., Apr 29 p 53
Beesley, W. P., Apr 29 p 53
Beesley, W. P., Apr 29 p 52
Beesley, W. P., Apr 29 p 52
Beesley, W. P., Apr 29 p 52
Beesley, T. B., June 3 p 30
Becker, R. B., June 10 p 21*
Belly, T. M., Feb 25 p 74
Bell, J. J., Apr 1 p 50
Bellow, C. M., Feb 25 p 74
Bennett, Robert E., Feb 4 p 28
Bennett, William H., Apr 8 p 72
Bennett, William H., Apr 8 p 72
Bennett, William H., Apr 8 p 75
Bennett, William H., Apr 8 p 75
Bennett, William H., Apr 8 p 76
Berger, Richard B., Jan 26 p 48; June 24
Berghoefer, Walter L., May 20 p 48
Berghoefer, Walter L., May 20 p 48
Berghoefer, Walter L., June 11 p 47
Bertram, James T., Mar 11 p 47
Bertram, James T., Mar 11 p 47
Bertram, James T., Mar 11 p 47
Bettram, James T., Mar 11 p 47
Bettram, James T., Mar 11 p 47
Bettram, James T., Mar 19 p 78
Bettry, M. Sames T., Walter L., Sames T., Selett Mar 19 p 78
Bettry, M. Sames T., Selett S., Selett S.,

Besanceney, M. W., Feb 25 p 75
Betler, N. Keith, May 20 p 46
Betler, N. Keith, May 20 p 46
Betz, Wilbur J., May 6 p 20
Bevans, R. T., Apr 15 p 39
Beyerle, W. G., June 17 p 46
Bickel, Melvin J., Apr 22 p 33
Birchard, Ray R., Feb 4 p 28
Birmingham, D. J., Feb 4 p 28; May 20 p
Bighon B. P.

Bishop, B. R., Mar 11 p 46 Bitner, H. C., May 20 p 46 Biven, L. R., June 10 p 21 Black, Harland R., Feb 25 p 75 Blackard, F. Porter, Feb 18 p 52; Mar

Black, Harland R., Feb 25 p 75
Blackard, F. Porter, Feb 18 p 52; Mar
11 p 46
Blackerd, R. C., May 6 p 20
Blackwell, Richard B., Apr 29 p 53
Blaes, Eugene J., June 24 p 89
Blaiklock, H. M., May 20 p 48
Blair, D. W., Apr 29 p 51
Blanchard, F. C., June 24 p 89
Blanchet, Pan, May 20 p 48
Blanchet, Pan, May 20 p 48
Blanchet, Pan, May 20 p 48
Blanchet, Robert B., Apr 29 p 52
Bleasing, Rob, May 6 p 20
Bleasing, Rob, May 6 p 20
Bleasing, Ken, May 6 p 20
Bleod, Forrest A., Apr 29 p 53
Bloodser, Robert E., Apr 8 p 70
Book, Charles D., Mar 11 p 47
Bock, John J., May 6 p 20
Bode, Herman, Apr 22 p 33
Bodwell, P. G., Jr., Mar 11 p 47
Boewe, John F., Jan 7/14 p 82
Bohle, A. F., Apr 29 p 51
Bohmeyer, E. A., Apr 15 p 38*, p 39
Bohne, Victor C., Jan 26 p 48
Boliger, John J., Feb 25 p 74
Bollinger, W. F., June 3 p 30
Bonnette, Leroy E., June 24 p 90
Borst, Duane R., Apr 22 p 33
Bowe, Richard E., Apr 8 p 70
Boyers, F. A., Jr., Jan 7/14 p 82
Bowman, R. W., June 24 p 88
Boyd, Ian C., Jan 29 p 46
Boyd, Robert O., Mar 18 p 33
Boyd, Samuel S., Apr 8 p 70
Boyers, Herman C., Feb 4 p 28
Bradford, R. Knox, June 17 p 46
Brakebill, J. R., Feb 25 p 74; Mar 25 p 50
Brammer, Paul E., Mar 11 p 46

Brammer, Paul E., Mar 11 p 46

Brand, Charles E., Feb 18 p 53 Branning, Earl, Jan 7/14 p 82; Jan 28 p 48

Branning, Earl, Jan 7/14 p 82; Jan 28 p 48
Bratton, Carl F., May 13 p 28*
Bratton, Charles J., Jr., Feb 25 p 74
Braunchweiger, Walter J., Apr 1 p 30
Breedlove, Ransom L., Mar 25 p 60
Breess, F., Jan 28 p 47
Breiner, L. W., May 20 p 48
Brennan, Frank K., Mar 16 p 33
Brennan, George T., May 20 p 48
Brennan, George T., May 20 p 48
Brennan, Chester R., Feb 18 p 52;
Mar 11 p 47
Breon, Bruce O., Jan 7/14 p 85
Bresenhan, Robert C., Jan 21 p 29
Bressette, Delbert M., Apr 15 p 38
Briggs, F. Russell, June 24 p 96
Briggt, Russell, June 24 p 89
Brisbin, Earl G., June 17 p 46
Brisbin, Earl G., June 17 p 46
Brisdway, Frederick J., Jr., Mar 25 p

Broadway, Frederick J., Jr., Mar 25 p

Broderson, Arthur R., Feb 11 p 34

Bromley, LeRoy, Apr 29 p 52

Brooke, F. Dixon, May 13 p 28*

Brooke, F. Dixon, May 13 p 28*

Brooke, Harold S., Jan 21 p 30

Brossau, Paul P., Feb 25 p 74

Brothere, T. K., Apr 29 p 51

Brown, Albert E., Jan 21 p 28*, p 29

Brown, Albert E., Jan 21 p 28*, p 29

Brown, Albert E., Jan 21 p 28*, p 29

Brown, E. J., Mar 4 p 35

Brown, Brod R., Feb 18 p 52

Brown, Harold B., Apr 29 p 53

Brown, Bohn W., Jr., Jan 28 p 49

Brown, Norman R., Feb 11 p 34

Brown, Roger F., Mar 11 p 46*

86
Brown, Roger F., Mar 11 p 46*
Brown, W. B., Jan 21 p 30
Brown, W. R., Feb 18 p 52
Bruce, Alexander D., May 6 p 20*
Bruce, Basil F., Mar 11 p 46; Mar 25 p

60
Bruce, L. C., Jan 7/14 p 84
Bruce, Robert N., Feb 4 p 28
Bruch, Max W., June 10 p 23
Bruley, Jerold, May 13 p 28
Brunner, Kennett C., Feb 16 p 52
Buchanan, P. R., Mar 18 p 33; June 17 p
47

Brunner, Kenneth C., Feb 18 p 52
Buchanan, P. R., Mar 18 p 33; June 17 p
47
Buckingham, Raiph C., Apr 29 p 51
Buckley, Thomas C., May 27 p 67
Budd, J. M., Jan 21 p 29
Butetow, Herbert P., May 27 p 68
Buffalo, John B., Feb 4 p 28
Buda, J. L., Feb 25 p 75
Buland, George L., Mar 11 p 47
Bulck, R. L., June 24 p 88
Burch, J. R., Jan 28 p 47
Burckel, C. J., June 24 p 89
Burgak, H. R., Feb 11 p 34
Burke, D. O., Apr 15 p 36* p 39
Burke, Edmund, June 24 p 86
Burke, John A., Jr., Apr 22 p 33
Burket, Charles W., Jr., Mar 11 p 47
Burkhart, M. W., Feb 11 p 35
Burnes, E. C., Feb 11 p 35
Burnes, E. C., Feb 11 p 35
Burnes, Kenneth J., Jan 7/14 p 85
Burr, William H., Mar 11 p 46*
Burris, L. L., Jan 21 p 29
Burris, L. L., Jan 21 p 29
Burris, L. T., Mar 11 p 46*
Burryell, W. Seal, June 24 p 88
Bush, G. Albert, Jan 7/14 p 82; Feb 11 p
34
Buthman, Albert J., Feb 18 p 53
Butler, Sheldon, May 13 p 29

34
Buthman, Albert J., Feb 18 p 53
Butler, Sheldon, May 13 p 29
Butterfield, Dennis O., June 24 p 89
Buyer, Alfred S., Feb 18 p 54
Byrom, John F., Feb 4 p 29

C

Caden, William F., May 6 p 20 Cabill, Kevin J., Jan 7/14 p 82 Cain, Needham P., Apr 22 p 33 Caldwell, L. E., Apr 15 p 39 Calendine, Roy A., Mar 4 p 35

Campbell, Charles W., June 17 p 46
Campbell, David S., Mar 4 p 35
Cannon, John D., Feb 25 p 52*
Capps, Leon C., Jr., Mar 11 p 47
Cardwell, Eugene F., Jan 7/14 p 84
Cardwell, Lioyd, Mar 4 p 35
Carey, Bernard E., Jan 21 p 30; Feb 18
p 53
Carles, Barry E., Apr 29 p 51
Carlston, Harry E., Apr 29 p 51
Carlston, Harry E., Apr 29 p 51
Carlston, Walter C., June 17 p 47
Carlstedt, Fred E., Mar 4 p 35*
Carman, Donald L., Jan 21 p 29
Carroll, Joseph F., June 24 p 80
Carroll, Joseph F., June 24 p 80
Carroll, Joseph F., June 24 p 80
Carroll, James H., June 10 p 21
Carter, C. W., Apr 15 p 39
Carter, C. W., Apr 15 p 39
Carter, James H., June 10 p 21
Carter, John A., Mar 25 p 58*, p 60
Cardildge, F. G., Apr 29 p 53
Cary, James R., III, Mar 11 p 46
Casady, George M., May 6 p 20
Cash, T. B., Jan 26 p 48
Caskie, Challen E., Mar 11 p 47
Case, L. H., Apr 15 p 39
Cassin, Walter J., Jan 7/14 p 82; Feb 11
p 34
Cathey, J. Otis, June 3 p 27; June 17 p 46
Caywood, J. A., Mar 11 p 46*
Cederfield, R. V., Feb 4 p 28
Cederburg, I. F., Jan 21 p 29
Cermack, T. F., May 20 p 46
Cetinich, J. N., Feb 18 p 52
Chadwick, John P., May 6 p 20
Chambers, Otis, Feb 18 p 54
Chappan, E. J., Apr 29 p 52
Cherington, Paul W., June 24 p 100
Cherry, J. H., May 27 p 66
Chiansson, A. E., Feb 18 p 52
Chicot, Kenneth B., Apr 8 p 70
Chilicott, G. K., May 20 p 46
Childress, B. T., Jr., Apr 15 p 38
Childis, J. M., Jan 21 p 29
Cermack, T. F., Jan 28 p 49
Chitwood, Charles P., Jan 21 p 29
Christiansen, Stanley R., May 20 p 46
Childress, B. T., Jr., Apr 15 p 38
Childis, J. M., Jan 21 p 28
Christionsen, Stanley R., May 20 p 46
Childress, B. T., Jr., Apr 15 p 38
Childis, J. M., Jan 21 p 29
Clarix, Wan 20 p 46
Childress, B. T., Jr., Apr 15 p 38
Childis, J. M., Jan 21 p 29
Clarix, John N., Feb 18 p 52
Chilcot, Kenneth B., Apr 8 p 70
Chilcottles, B. T., Jr., Apr 15 p 39
Colieman, Nate C., May 5 p 20
Cleristone, S. J., Apr 15 p 39
Coleman, William C., Jan 7/14 p 82
Coler, Fank K., June 10 p 23
Cleristone, S. J., Apr 15 p 39
Coleman, William C., Jan 7/14 p 82
Coleman, Charles J.

PEOPLE IN THE NEWS-Continued

[*Indicates photograph]

Connell, Raymond B., June 24 p 69
Conrad, Harry H., Jan 28 p 48
Considine, J. G., Feb 4 p 29
Contt, H. L., Apr 15 p 38
Converse, Frank W., Jan 21 p 29
Cook, E. A., Feb 25 p 75
Cook, G. E., June 24 p 90
Cook, John V., Jan 7/14 p 82
Cook, William S., Jan 7/14 p 82
Cook, William S., Jan 7/14 p 82
Cook, G. E., June 24 p 90
Cooper, George, Apr 22 p 33
Cooper, J. S., Apr 8 p 70
Copeland, S. R., Apr 1 p 30
Copenhagen, David H., Mar 11 p 47
Cordes, Norman W., Jan 21 p 29
Cornen, Edward R., Feb 4 p 28
Corry, Edward R., Feb 4 p 28
Corry, Edward R., Feb 4 p 28
Corry, Edward R., Apr 29 p 52
Costello, John R., Feb 18 p 53
Costello, Kichard E., Apr 29 p 53
Cottello, John R., Feb 18 p 53
Cottello, James A., June 17 p 47
Couey, A. L., Apr 29 p 51
Cowan, Gerald deG., Feb 25 p 75
Cowley, Charles, June 17 p 47
Crab, Harry, Feb 11 p 34
Cramer, Charles, June 24 p 89
Cowling, P. Laurin, Mar 25 p 60
Cox, A. Franklin, Apr 29 p 52
Coy, Calvin, Mar 11 p 47
Crab, Harry, Feb 11 p 34
Cramer, Ralph N., Jan 714 p 82°, p 84
Cramer, Ralph N., Jan 714 p 82°, p 84
Cramer, Ralph N., Jan 714 p 82°, p 84
Cramer, Walter M., Jan 74 p 82
Crawford, Cecil M., Jan 74 p 82
Crawford, Cecil M., Jan 74 p 82
Crawford, J. A., Feb 4 p 28
Creseman, Charles E., Feb 4 p 29
Creseman, Charles E., Feb 4 p 29
Creseman, Charles E., Feb 4 p 29
Creseman, Ronald S., June 17 p 46
Cross, Bert S., May 27 p 86
Cross, Bert S., May 27 p 86
Cross, Janley J., Mar 1 p 47
Cubbage, W. Arthur, Jan 28 p 48
Cryan, Stanley J., Mar 1 p 47
Cubbage, W. Arthur, Jan 28 p 48
Culler, J. Victor, Mar 28 p 39
Culler, J. Victor, Mar 28 p 36
Cutter, Thomas E., Mar 11 p 46

D

Dabbs, D. S., Mar 11 p 47
DaGue, Leiand A., Jan 21 p 29
Dahlberg, Roy W., May 27 p 68
Dalrymple, E. Ross, May 27 p 68
Dalrymple, E. Ross, May 27 p 68
Dariels, E. L., June 24 p 98
Daniels, A. M., June 10 p 21
Daniels, Erving, June 24 p 90
Danielson, Carl A., Mar 4 p 35*
Dart, Donald D., Feb 11 p 34
Davemport, Herry F., June 10 p 21*
Davenport, Herry F., June 10 p 21*
Davenport, Herbert E., Mar 25 p 80
Davison, R. E., June 17 p 9*
Davidson, R. E., June 17 p 9*
Davidson, Thomas C., Feb 11 p 34
Daviss, John A., Apr 15 p 39
Davis, E. Q., Jan 28 p 46
Davis, Hugh M., Feb 11 p 35
Davis, J. B., Jr., Jan 28 p 46
Davis, L. J., Jr., Feb 18 p 52*
Davis, W. Clayton, Mar 4 p 35
Davis, W. Clayton, Mar 4 p 35
Davis, W. W. Clayton, Mar 4 p 35
Davis, W. May 13 p 29
Dean, Fred S., Apr 1 p 30
Deany, Herbert J., Apr 29 p 51
Deaton, J. E., Apr 29 p 51
Deaton, J. E., Apr 29 p 52
DeBoer, William, Feb 25 p 75; Mar 25 p
60
DeBusk, Thomas L., Jan 7/14 p 84

Deaton, J. E., Apr 28 p 52
DeBoer, William, Feb 25 p 75; Mar; 60
DeBusk, Thomas I., Jan 7/14 p 84
Decker, D. H., Feb 11 p 34
Decker, D. H., Feb 11 p 34
Defiel, George F., Feb 4 p 28*
Delaney, Art, Mar 18 p 33*
Del Valle, G. J., Jan 7/14 p 82
Delaney, Art, Mar 18 p 33*
Del Valle, G. J., Jan 7/14 p 82
de Martorell, Litts, Jan 7/14 p 82
de Martorell, Litts, Jan 7/14 p 82
Demoses, Alan D., Mar 4 p 35
Dempsey, M. A., June 24 p 88
Dennia, C. L., May 27 p 82
Demoses, Carl S., Apr 15 p 38
Dennia, Carl S., Apr 15 p 38
Dennia, Carl S., Apr 16 p 38
Dennia, C. L., May 27 p 82
Dervan, W. F., Feb 4 p 28
Detvier, John F., Mar 25 p 60
Diamond, Abraham A., Apr 29 p 53
Diamond, R. W., Feb 11 p 34
Dick, A. C., Jan 28 p 47
Dick, Merwin H., Jan 7/14 p 34*
Dickerson, Arthur M., Mar 11 p 46

Dickinson, William J., June 3 p 30 Dickson, H. P., Jan 28 p 47 Diegtel, Fred, Apr 22 p 32, p 33*; Apr 29 p 51 p 51 Diemer, David F., May 20 p 46 Dilts, A. R., Apr 22 p 33 diLustro, P. T., Apr 22 p 33; Apr 29 p 51 Dilworth, Richardson, Feb 4 p 27; June 3

LAMES, A. R., ASP 22 p 33; APR 29 p 51
Dilworth, Richardson, Feb 4 p 27; June 3
p 13
Dingle, Karl W., Jan 28 p 48
Dinkel, Stanley E., Mar 11 p 47
Dixon, B. W., Feb 4 p 28
Dixon, J. R., June 24 p 89
Doan, H. M., Feb 11 p 35
Docherty, John M., May 27 p 66
Dodd, J. C., June 3 p 30
Dodge, Clayton T., Jan 28 p 48
Doelling, R. J., Jan 21 p 28
Dolandson, William H., Jan 28 p 48
Donledy, John M., Mar 11 p 46
Donahue, James J., June 10 p 23
Donaldson, William H., Jan 28 p 48
Donledy, Paul J., Jr., Feb 18 p 54
Donnelly, Paul J., Jr., Feb 18 p 54
Donelly, Jan 21, Jr., Feb 18 p 54
Dorry, William L., Mar 11 p 47
Dorrance, John B., Jan 7/14 p 85
Dovry, William L., Mar 11 p 47
Dorrance, John B., Jan 7/14 p 85
Dovylia, J. A., June 24 p 88
Douglass, Don L., Apr 22 p 33
Dougold, Samuel E., June 10 p 23
Dove, George E., Mar 25 p 58
Dowled, L. E., May 20 p 48
Dove, W. E., May 13 p 28
Draganov, S. M., May 20 p 48
Draganov, S. M., May 20 p 48
Duncan, Oliver H., Apr 29 p 52
Dunkman, William F., Jan 7/14 p 84
Dunch, Jones S. Richard L., Apr 1 p 36
Dueland, R. C., Jan 28 p 46
Duncan, Oliver H., Apr 29 p 52
Dunkman, William F., Jan 7/14 p 84
Dunch, Verent Control of the Control of th

Bunn, Butnie M., Jan 28 p 46; Mar 25 p 50 Dunn, H. W., Jan 28 p 46 Dunn, Kempton, Feb 4 p 29 Dunn, M. I., Feb 18 p 52 Dunn, M. I., Feb 18 p 52 Dunn, M. M., Apr 15 p 38; June 24 p 88 Dunning, D. A., May 20 p 46 Dunton, F. D., Jan 26 p 48 Dunton, F. D., Jan 26 p 48 Dupes, De Forest C., May 27 p 66 Dupes, De Forest C., May 27 p 66 Dupes, De Forest C., Feb 11 p 34; Mar 18 p

33 Durbon, William K., June 17 p 47 Dusenbury, George, Apr 29 p 67* Dwyer, J. J., June 24 p 88 Dyche, K. L., Mar 11 p 48 Dyer, Charles W., Jr., Apr 8 p 70

Eash, Joseph J., June 17 p 46
Easterling, Henry F., Agr 29 p 53
Easten, J. H., Lyn 29 p 51, May 13 p 28;
Easten, J. H., Lyn 29 p 51, May 13 p 28;
Eaton, Frederick H., Lan 28 p 49
Echtermach, Dandel W., Agr 1 p 30
Ecker, Harry B., Agr 22 p 33
Edbrooke, M. F., Agr 15 p 39
Eddwards, Jack E., Agr 22 p 33
Edwards, John, June 42 p 34
Edwards, John, June 48 p 30 p 46
Edwards, John, June 48 p 30 p 46
Eggan, W. H., Agr 15 p 39
Eggleston, J. Morton, Jr., Feb 18 p 52
Ehrich, Henry W., Jan 7/14 p 82
Eichten, David M., Mar 25 p 60
Eischen, M. H., Jan 28 p 46
Eiden, William D., Feb 25 p 75
Eider, J. F., Agr 20 p 32
Eidradgs, S. J., June 10 p 21
Eillott, L. A., Feb 11 p 35
Eiterman, F. L., June 24 p 89
Engleston, F. L., June 24 p 89
English, L. B., Jan 28 p 48
Englesh, O. J., June 24 p 89
English, L. B., Jan 28 p 48
Englesh, C. J., June 24 p 89
English, L. B., Jan 28 p 49
English, C. L., June 24 p 89
English, L. B., Jan 28 p 49
English, L. B., Jan 28 p 49
English, L. B., Jan 28 p 49
English, C. Levy A., Mar 11 p 47
Erickson, Edward C., Jan 28 p 47
Erickson, Edward C., Jan 28 p 46
Easilanger, R. M., Apr 1 p 30
Eventh, R. L., Jan 28 p 48
Evin, R. D., May 6 p 20
Erwin, R. L., Jan 28 p 46
Evich, John J., Apr 1 p 30

F

Fagan, Paul R., Feb 4 p 28; Mar 11 p 47 Falis, Ralph J., Apr 15 p 38 Fante, T. A., Feb 18 p 52 Farte, T. A., Feb 18 p 52 Farmer, Clyde F., Jr., Feb 4 p 28 Farmer, George R., Apr 29 p 53 Farrell, W. J., May 13 p 29 Farsle, N. R., June 24 p 90

Fasolas, Arthur J., Mar 18 p 33
Fassitt, W. E., Feb 4 p 28
Fausch, James C., Jan 7/14 p 85
Faverty, C. B., Biar 11 p 47
Feinsinger, Nathan P., Apr 8 p 9
Felts, Clyde F., June 17 p 47
Ferguson, Joseph W., Jan 21 p 28
Ferguson, N. K., Mar 11 p 46
Ferrell, Alton J., June 3 p 27; June 17 p
47 Ferguson, Joseph W., Jan 21 p 28
Ferguson, N. K., Mar 11 p 46
Ferrell, Alton J., June 3 p 27; June 17 p
47
Fiala, Robert J., Apr 15 p 38
Fielder, Frederick A., Jan 21 p 28*, p 29
Filskov, H. T., June 3 p 30
Finch, W. H., Jan 7/14 p 84; June 10 p 23
Fish, D. C., May 20 p 46
Fisher, F. Apr 15 p 38* p 39
Fisher, Frederick, Jan 7/14 p 82
Fisher, F. Apr 15 p 38* p 39
Fisher, Frederick, Jan 7/14 p 82
Fisher, June 10 p 21
Fitch, M. R., June 10 p 21
Fitch, Jan R., June 10 p 21
Fitch, Jan R., June 10 p 27
Fitzhugh, Henry T., Feb 4 p 29
Fitzperid, J. R., June 17 p 47
Fitzhugh, Henry T., Feb 4 p 29
Fitzperick, Eugene V., June 24 p 89
Filamerty, James O., Mar 25 p 60
Fleming, A. H., Feb 25 p 75
Fleming, William O., Apr 22 p 33
Flynn, Joseph P., May 20 p 46
Ford, Joseph J., June 10 p 21
Forbes, Stanley E., May 20 p 46
Ford, Joseph J., June 10 p 23
Forsha, June M., May 27 p 67
Folt, A., Apr 29 p 51
Folt, A., Apr 29 p 51
Folt, A. Apr 29 p 51
Fraick, Charles R., May 6 p 20
Frank, Melvin H., Jan 21 p 30
Franklin, Richard E., Feb 4 p 28*
Fraser, Kenneth M., June 24 p 90
Frank, Melvin H., Jan 21 p 28
Freeman, W. H., June 3 p 30
Freeze, David G., Apr 29 p 52
Freeman, R. W., Jan 21 p 28
Freeman, M. H., June 3 p 30
Freeze, David G., Apr 29 p 52
Freeman, Anthony C., Apr 29 p 32
Fretwell, R. D., Jan 21 p 28
Frischkorn, O. V., Jan 7/14 p 84
Froelich, C. L., Apr 22 p 33
Fredich, Carl L., May 13 p 28
Frolich, Carl L., May 13 p 28
Frolich, Carl L., May 19 p 48
Fuller, Harris W., May 20 p 48

Gable, John L., June 3 p 30
Gagen, F. C., Jan 28 p 46
Gaherin, J. J., Jan 21 p 12; June 17 p 9*
Gaines, W. A., Jan 27 l 12; June 17 p 9*
Gaines, C. W., May 13 p 28
Gallagher, James T., Feb 18 p 52
Galloway, George L., Apr 28 p 51; June
24 p 88
Galloway, Robert E., Mar 11 p 46
Galuppo, John D., June 3 p 30
Gamser, Howard G., Feb 11 p 7; Mar 18
p 33*
Gardiner, John C., May 27 p 66
Gardner, Henry A., May 13 p 29
Garland, Lawrence, Jan 28 p 48
Gardner, William C., June 24 p 96
Garland, Lawrence, Jan 28 p 48
Garman, C. W., May 27 p 56
Garner, Frank J., Feb 18 p 52
Gasior, Bernard, June 10 p 21
Gastor, Bernard, June 10 p 21
Gavaghan, J. P., Feb 4 p 28
Gay, Willard B., Apr 15 p 39
Geaney, Richard W., June 24 p 88*, p 89
Gebbauer, J. M., Feb 4 p 28
Gehr, W. A., Feb 4 p 28
Gehr, W. A., Feb 4 p 28
Gehrt, Robert E., May 13 p 29
Gentry, J. L., June 10 p 21
George, Grank L., Feb 11 p 35
George, Richard W., June 24 p 88*, p 89
Gerbauer, J. M., Feb 5 p 30
George, Rowade S., Jan 7/14 p 85
George, Rowade S., Jan 7/14 p 85
George, Richard H., May 6 p 20; June 17
p 46
Gergetts, J. B., Jan 28 p 47
Geserick, William F., Jr., June 10 p 21* George, Mchard H., May 6 p 20; June 17 p 46
Gergets, J. B., Jan 28 p 47
Geserick, William F., Jr., June 10 p 21*
Gestal, W. J., June 24 p 88
Getz, Peter, Feb 4 p 28
Gheesling, J. T., Jr., May 20 p 48
Gibson, H. D., Apr 29 p 51
Gibson, Thomas R., Mar p 35
Gibson, William, May 13 p 29
Gilberd, H. E., Mar 18 p 9*; June 17 p 9*
Giles, Gerald L., May 27 p 67
Gilhooley, John J., Feb 11 p 35
Gilkerson, John J., Feb 11 p 35
Gilkerson, Jack C., June 24 p 89
Gill, Robert W., Apr 29 p 52
Gillespie, Charles C., Mar 11 p 46
Gillitck, Laurance H., May 6 p 20*
Gilmore, H. L., June 17 p 48
Gilpin, Thomas, Jan 7/14 p 82
Gilzow, Homer F., Jan 21 p 28
Gingerich, Lester E., Feb 4 p 28
Given, William B., Jr., Feb 4 p 29
Gleason, J. M., Feb 11 p 35
Gobrecht, Harry D., May 27 p 68
Gobrecht, Harry D., May 27 p 68
Gobrecht, J. E., Feb 18 p 52
Godwin, J. M., June 17 p 46

Goff, Abe McGregor, Apr 1 p 10 Going, T. F., May 27 p 68 Goinz, James B., Feb 11 p 34 Golian, T. J., May 13 p 29 Goodail, Bryant R., May 20 p 46 Gooding, George E., Jan 21 p 29 Goodrich, J. G., Jan 28 p 48 Goodwin, Charles A., Feb 18 p 52 Gordon, H. L., Feb 25 p 74 Gormley, F. J., Feb 4 p 26 Goodwin, Charles A., Feb 18 p 52 Gordon, H. L., Feb 25 p 74 Gormley, F. J., Feb 4 p 26 Gould, Arthur C., Mar 25 p 60 Grabowski, L. F., Feb 11 p 34 Grader, G. T., Mar 18 p 33 Gramm, William C., Feb 18 p 52 Grant, Eric O., Mar 18 p 33 Gramm, William C., Feb 18 p 52 Grant, Eric O., Mar 18 p 33 Grassmuck, A. F., May 27 p 66 Grasso, Samuel J., May 20 p 46 Graves, Lester S., Jan 7/14 p 82 Green, G. R., Mar 25 p 60 Green, H. S., Jr., Mar 18 p 33 Green, William R., Apr 29 p 53 Green, The S., Jr., Mar 11 p 46 Gregon, A. S., May 20 p 46 Griffin, Joseph, June 24 p 89 Groton, C. T., Jr., Jan 27 p 46 Grover, R. F., Jan 7/14 p 82 Grossman, Frank N., May 13 p 20 Groton, C. T., Jr., Jan 28 p 46 Growe, F. Robert, Jan 7/14 p 82 Grossman, Frank N., May 11 p 46 Gryzmala, Chester, Mar 11 p 46 Gunther, Joseph D., May 6 p 20

H

H

Haack, Robert A., Apr 29 p 51°, p 52

Haan, Vermon J., May 20 p 46

Haas, Frank E., Mar 18 p 28

Haddick, T. G., Mar 18 p 38

Haenssel, Waiter M., Mar 25 p 59

Hagen, J. M., June 17 p 50

Hagen, J. Deeph, June 24 p 89

Hagenhoff, R. A., June 10 p 21

Hagy, A. F., Mar 25 p 60

Haigh, Lewis C., Jan 28 p 49

Hales, F. S., Apr 1 p 30°

Hales, H. E., Mar 18 p 33

Hall, Arlur, Jan 7/14 p 82

Hall, C. L., Mar 18 p 33

Hall, Erlb, Jun 7/14 p 82, Jan 28 p 48

Hall, J. H., Mar 11 p 46

Hallaron, G. F., Jan 28 p 46

Hallberg, Robert E., May 18 p 46

Hallberg, Robert E., May 18 p 20°

Hallberg, Robert E., May 13 p 20°

Hallmann, E. H., Jan 21 p 12; June 17 p

Palworson, C. H., May 13 p 28

Hamann, W. W. Marchen, May 13 p 28

Hamann, W. W. Marchen, May 13 p 28

Hamann, W. W. Marchen, May 18 p 28

Hamann, W. W. Marchen, M

Hallmann, E. H., Jan 21 p 12; June 17 p 9*

Halvorson, C. H., May 15 p 28

Hamann, W. J., May 13 p 28

Hambly, R. M., Jan 28 p 48

Hamilton, L. L., Apr 1 p 30

Hamilton, W. D., Mar 11 p 47

Hammers, J. Walter, Jr., June 17 p 47

Hammers, J., Walter, Jr., June 17 p 47

Hammond, Arthur G., Yr., Jan 7/14 p 82

Hammond, W. T., Apr 15 p 39

Hample, Rolland C., June 24 p 88

Hamdyer, R. M., June 24 p 88

Handwerker, A. M., June 34 p 47

Hansen, Donald C., June 3 p 27; June 17 p

47

Handwerker, A. M., Jan 28 p 47
Hansen, Donald C., June 3 p 27; June 17 p
Hansen, R. K., June 17 p 46
Hanson, Andrew E., Jan 28 p 48
Hansen, K., June 17 p 46
Hanson, Andrew E., Jan 28 p 48
Harbeke, C. J., June 17 p 46
Harbeke, C. J., June 17 p 46
Harlow, Roper H., May 6 p 20
Harman, Robert, Mar 11 p 47
Harlow, Roper H., May 6 p 20
Harms, H. R., Jan 28 p 47
Harris, C. L., Jan 28 p 47
Harris, Galon S., June 10 p 21
Harris, C. J., June 28 p 47
Harris, Galon S., June 10 p 21
Harris, Lolland L., Feb 6 p 28
Harris, Lolland L., Feb 8
Harris, Godney A., May 6 p 20
Harrison, George M., May 27 p 82
Harrison, Thomas L., Feb 18 p 53
Harrison, Thomas L., Feb 18 p 53
Harrison, William F., Feb 18 p 53
Harrison, William F., Feb 18 p 34
Harvey, R. Hann F., 20 1 p 34*, p 35
Hartz, W. W., Feb 11 p 34
Hartz, W. W., Feb 11 p 34
Harvey, Emmett C., Jan 28 p 46
Harvey, Nathan T., June 3 p 30
Harvey, W. C., Feb 25 p 74
Hasselman, Richard B., June 17 p 46
Hasdings, John G., May 20 p 46
Hastober, Albert F., June 3 p 37
Hasun, Donald W., Mar 8 p 33
Have, Janac K., Apr 1 p 30
Hayes, Eugene, Apr 29 p 53
Hayes, Stewart, Feb 18 p 54
Headley, Janac K., Feb 18 p 54
Headley, Joseph D., May 13 p 28
Heatlon, Allen K., Feb 18 p 52

Heaton, P. R., Feb 4 p 29
Hecker, C. W., Mar 11 p 46
Heddey, William J., Apr 1 p 30*
Heilman, Richard H., May 27 p 82
Heiner, William G., Jr., Apr 22 p 33
Heilenbrand, Samuel H., Jan 7/14 p 84
Heillyer, Dan C., May 20 p 46
Heilms, F. J., Feb 4 p 28
Henderson, E. Gray, Jan 7/14 p 82
Henderson, E. Gray, Jan 7/14 p 82
Henderson, E. Gray, Jan 7/14 p 82
Henderson, Loyal R., Mar 11 p 46; June
10 p 46
Hendrickson, Charles J., Mar 25 p 60
Henges, Willard E., Apr 15 p 39
Hensarling, Kenneth, May 6 p 20
Hensarling, Kenneth, May 6 p 20
Hensarling, Kenneth, May 6 p 20
Herson, C. T., Jan 28 p 46
Herber, Kleneth E., Jan 21 p 29
Herling, Edward K., May 6 p 20
Herrong, C. T., Jan 28 p 46
Herber, Kleneth E., Jan 21 p 29
Herzong, C. T., Jan 28 p 46
Herber, Kleneth E., Jan 21 p 29
Herzong, C. T., Jan 28 p 46
Herber, Kleneth E., Jan 21 p 29
Herzong, C. T., Jan 28 p 46
Herber, Kleneth E., Jan 21 p 29
Herzong, C. T., Jan 28 p 46
Herber, Kleneth E., Jan 21 p 29
Herzong, C. T., Jan 28 p 46
Hebbard, Lloyd J., Jan 28 p 56
Hibbard, E. E., June 17 p 46
Hibbard, R. E., June 17 p 46
Hibckey, W. J., Apr 29 p 51
Hickey, Maurice F., May 20 p 46
Hickey, Maurice F., May 20 p 46
Hickey, Maurice F., May 20 p 46
Hickey, M. J., Apr 29 p 51
Hickey, M. J., Apr 29 p 51
Hickey, M. J., Apr 29 p 51
Hill, Michael F., June 10 p 21
Hillegass, Norman W., June 10 p 21
Hillegass, Norman W., June 17 p 46
Hillinga, Henry S., Apr 22 p 33
Hillman, A. B., Jan 28 p 56
Hillinga, Henry S., Apr 28 p 70; June 24
p 88
Hirah, Clyde E., Feb 25 p 74
Hobold, J. L., June 3 p 30
Hockaday, Curtis J., Mar 35 p 60
Hocker, Nicholas A., Jan 28 p 46
Hobold, J. L., June 3 p 30
Hockaday, Curtis J., Mar 35 p 60
Hocker, Nicholas A., Jan 28 p 46
Holond, E. P., Jan 28 p 47
Hollar, Philip A., May 6 p 20; May 13 p 26
Holmes, James, Mar 25 p 60
Holst, A. L., Feb 18 p 52
Holmes, Janes, Mar 25 p 60
Holst, A. L., Feb 18 p 52

Holland, E. P., Jan 28 p 47

Holland, Philip A., May 6 p 20; May 13

28

Holmes, James, Mar 25 p 60

Holmes, James, Mar 25 p 60

Holmes, James, Mar 25 p 60

Holte, A. L., Feb 18 p 52

Holt, C. L., Jan 28 p 46

Holton, J. O., Mar 11 p 40

Holton, J. O., Mar 11 p 40

Hope, J. D., Feb 11 p 34

Hopkins, William V., Mar 11 p 47

Hopper, J. L., Apr 28 p 51

Howard, Donald B., Jan 21 p 30

Howard, Ban D., Feb 18 p 54

Howard, Harold, Jan 28 p 46

Howard, Ban D., May 20

Hudel, Jan 28

Hudeleston, B. N., Mar 22 p 80

Hudson, Robert C., May 20 p 46

Hudson, Gardner C., Jan 7 / 14 p 21*

Hudson, Robert C., May 20 p 46

Hudson, Cardner C., Jan 24 p 90

Hudeleston, B. May 27 p 68

Hudbard, Jan 28 p 49

Hudleston, B., Jan 28 p 49

Hudleston, B., Jan 28 p 49

Hunt, Lapin P., Feb 25 p 73

Hunt, Chapin P., Feb 25 p 73

Hunt, Chapin P., Feb 25 p 73

Hunt, Chapin P., Feb 28 p 53

Hunt, Horman F., June 24 p 88

Hutcheson, W. A., June 24 p 99

Hutto, Charlee L., Feb 11 p 34

Hydd, W. J., Mar 11 p 47*

laggt, Glen C., Feb 18 p 54: June 24 p 89
Imbery, L. S., May 20 p 46
Imboff, Eldon A., Apr 1 p 30
Ingham, R. J., Apr 15 p 38
Ingram, Orville, Feb 18 p 52*
Irish, William C., May 27 p 68
Izett, D. J., Apr 15 p 38

J Jackson, G. R., June 17 p 46
Jackson, Robert A., Jan 7/14 p 82
Jackson, Virgil W., Jan 7/14 p 82
Jackson, Virgil W., Jan 7/14 p 82
James, Julian L., June 24 p 89
James, W. E., Apr 22 p 33
Jarden, Carroll R., Feb 18 p 53
Jardine, A., Jan 7/14 p 84
Jeffrey, William M., Jr., June 3 p 30
Jenista, Charles O., Apr 29 p 52
Jenkins, F. S., Jan 28 p 47
Jennings, R. G., Jan 28 p 48
Jensen, Max R., Mar 25 p 60
Jentoft, Lawrence H., Jan 7/14 p 82; Feb
11 p 34
Jester, J. H., Apr 29 p 51
Jester, J. H., Apr 29 p 51
Johanek, George J., Apr 8 p 70*

Johnson, Edward Q., Apr 1 p 30°
Johnson, F. L., Apr 22 p 33
Johnson, J. M., Jan 28 p 47
Johnson, R. E., Jan 21 p 28
Johnson, R. E., Mar 11 p 47
Johnson, R. E., Mar 11 p 47
Johnson, Raiph O., Mar 11 p 48
Johnson, Raiph O., Mar 11 p 46
Johnson, Robert A., May 27 p 66
Johnson, Roy B., May 27 p 67
Johnson, W. Russell, June 24 p 88
Johnson, W. Russell, June 24 p 88
Johnson, W. Russell, June 24 p 88
Johnson, W. Russell, June 25 p 17°
Johnston, William B., Jan 28 p 17°
Johnston, Flichard C., Apr 8 p 70; Apr 15
p 39
Johnston, Wayne A., June 17 p 13° Johnson, Edward Q., Apr 1 p 30*

p 39 Johnston, Wayne A., June 17 p 13* Johnston, Wayne A., Jr., Mar 11 p 46* Johnston, Wayne A., June 17 p 13* Johnston, Wayne A., Jr., Mar 11 p 46* Jones, H. S., Apr 15 p 38* Jones, H. S., Apr 15 p 38* Jones, L. A., Jan 28 p 48* Jones, L. A., Jan 28 p 48* Jones, Morris J., Mar 11 p 46* Jones, Robert P., Mar 25 p 59*, p 60* Jones, S. O., Apr 22 p 32* Jones, S. O., Apr 22 p 32* Jones, W. R., Feb 18 p 52* Jones, W. R., Feb 18 p 52* Jones, W. Raley T., Apr 29 p 52* Jones, William L., Mar 11 p 46* Jordan, Ronald H., May 6 p 20* Joy, Orion B., Jan 7/14 p 82* Juntunen, E. R., Feb 25 p 75*

K

Kahn, George N., Mar 18 p 13*
Kamm, Horace M., June 24 p 89
Kania, V. F., Mar 25 p 60
Kania, V. F., Mar 25 p 60
Kanie, J. F., Jan 28 p 48
Kartheiser, Frank L., May 13 p 28
Kauffman, Joseph C., Apr 8 p 70
Kay, V. C., Apr 2 p 51
Keeier, R. F., Mar 11 p 46
Keenan, Robert W., Feb 25 p 74
Keever, R. H., June 24 p 89
Kellaris, W. K., Jan 7/14 p 82; Feb 4 p 28
Keller, R. E., Mar 11 p 47
Kelley, Augustus B., Jan 7/14 p 82
Kelley, Reed W., Apr 8 p 70
Kelley, Reed W., Apr 8 p 70
Kelly, Daniel M., Jan 21 p 29
Keneski, John S., May 13 p 28
Kennedy, Fabian, Apr 15 p 38
Keoughan, Laurence P., June 3 p 30
Kernell, Nathaniel E., June 17 p 46
Kidwell, Roy G., June 24 p 89
Kieffer, Victor E., June 17 p 46
Kileborn, Ted, Apr 29 p 52
Kiernan, John J., June 10 p 23
Killeen, S. A., Apr 15 p 38
Kimble, Harold W., Jan 7/14 p 82
Kinch, R. V., May 27 p 66
King, John A., Mar 4 p 35
King, Robert W., May 13 p 28*
Kingh, Fobert W., May 13 p 28*
Kingh, Fobert W., May 13 p 28*
Kingh, Sobert W., May 13 p 28*
Kingh, Robert W., May 13 p 28*
Kingh, Robert W., May 13 p 28*
Kirk, W. L., June 17 p 46
Kirk, C. R., June 24 p 89
Kirk, W. L., June 17 p 47
Kiser, L. S., Apr 15 p 38
Killenn, S. G., Apr 15 p 38
Kingh, Robert W., May 13 p 28
Kirk, W. L., June 17 p 47
Kiser, L. S., Apr 15 p 39
Kirkpatrick, Darrow, Mar 11 p 47
Kiser, L. S., Apr 15 p 39
Kitchan, V. B., Apr 29 p 51
Kizer, L. B., Jan 28 p 46
Klaiber, G. A., June 17 p 35
Kleinkort, Joseph P., Feb 11 p 35
Koudsen, H. G., Apr 22 p 33
Koudsen, H. G., Apr 22 p 33
Koudsen, H. G., Apr 22 p 33
Koudsen, H. G., Apr 15 p 38
Kleinkort, Joseph P., Feb 11 p 36
Koeller, C. E., Apr 29 p 51
Klosen, F. J., Jan 714 p 82
Krauer, Huge, J., June 24 p 89
Krauer, Huge, Apr 22 p 33
Koudsen, H. G., Apr 19 p 86
Krauer, C. C., Apr 29 p 51
Koeller, C. J., Apr 22 p 33
Koudsen, H. G., Apr 19 p 86
Krauer, C. J., Apr 22 p 33
Kr

Labus, Charles G., June 10 p 21
Ladee, Donald, June 24 p 89
Lafleur, John G., Mar 18 p 33
Larird, W. E., Jan 28 p 48
Lamb, J. K., Feb 18 p 52
Lamberson, Andrew, June 24 p 89
Lamkin, Max L., Mar 11 p 46
Lampprecht A. J., Jan 21 p 29
Landers, Paul O., Feb 18 p 53
Lane, Rembrandt P., Jr., June 24 p 89
Landers, Paul O., Feb 18 p 53
Lane, Rembrandt P., Jr., June 24 p 89
Lanes, Cack G., Jan 7/14 p 82
Lang, A. D., June 10 p 21
Lang, Clarence J., May 6 p 20
Larson, Paul A., Feb 4 p 28
Lasco, C. A., May 13 p 29
Lasher, E. C. R., Apr 8 p 71
Laskoske, A. W., June 10 p 21*, p 23;
June 17 p 46
Lassiter, Roy L., Feb 18 p 52
Lathan, J. S., Jan 21 p 29
Lathan, F. L., May 20 p 46
Latting, William F., Jr., Feb 18 p 53
Lawler, Bruce G., Jan 7/14 p 82
Layman, William V., Feb 25 p 74
Leahy, J. P., Feb 18 p 52
Leclare, Dale M., Feb 18 p 52
Leclare, Dale M., Feb 18 p 53
Lee, Emmett J., Jan 28 p 48
Lee, H. H., Mar 11 p 46
Leengran, V. A., June 24 p 88
Legare, A. Roger, Feb 25 p 74
LeGrande, Robert B., Apr 29 p 51
LeGros, A. F., Apr 15 p 39
Lefgh, Walter E., Jr., Jan 28 p 47
Lemby, Luther H., June 10 p 21
Lennig, C. R., June 17 p 46*
Lentix, F. F., Apr 15 p 38
Legate, F. F., Apr 15 p 38
Lett, William L., Feb 11 p 34
Lestie, J. K., Jan 7/14 p 82
Levin, John F., May 27 p 87
Lewis, John F., May 27 p 87
Lewis, Bohn F., May 27 p 87
Lewis, John L., Apr 15 p 39
Lindstrom, George O., Jan 28 p 48
Linker, Charles W., Jan 7/14 p 85
Linkins, May 6 p 20
Lindquist, R. C., Feb 18 p 52
Lindsay, Gordon W., Apr 15 p 39
Lindstrom, George O., Jan 28 p 48
Little, Harold D., Mar 11 p 46
Lockwood, W. J., Jr., Mar 11 p 46
Lockwood, W. J., Jr., Mar 11 p 46
Lockwood, W. J., Jr., Mar 21 p 30
Lindstrom, George O., Jan 28 p 48
Linkins, Mary B., Jan 28 p 48
Little, Lan, May 20 p 46
Luchel, L. L., Jan 28 p 48
Little, Lan, May 20 p 46
Luchel, John J., Apr 15 p 38
Luchel, C. G., Jan 21 p 28
Lucyel, C. L., Jan 28 p 48
Lockwood, W. J., Jr., Mar 11 p 46
Lockwood, W. J., Jr., Mar 11 p 46
Lockwood, W. J., Jr., Mar 11 p 46
Lucwey, R. E., Jan 21 p 58
Luchele, L. A., Mar 25 p

M

Maass, John C., June 24 p 90
MacAnanny, James H., June 10 p 21*
Macfarlane, R. S., Jan 21 p 29
Mackie, Francis G., Feb 11 p 35
Madden, M. B., Jan 28 p 47
Maddox, J. T., Feb 11 p 34
Madden, L. L., Jan 28 p 47
Maeser, Benjamin J., June 17 p 46
Maguire, M. V., Apr 29 p 51
Mahon, Harry F., Feb 11 p 35
Mahoney, John E., May 20 p 48; May 27
p 87
Maines, Thomas J., May 20 p 48

Maines, Thomas J., May 20 p 48
Major, Paul C., May 13 p 28*
Major, Paul C., May 13 p 28*
Malcolm, J. W., Feb 11 p 34
Malcolm, J. W., Feb 11 p 34
Malcolm, J. W., Feb 12 p 47
Malcolm, J. W., Jan 28 p 47
Maloney, M., Jan 28 p 46
Maloney, T. F., Jan 28 p 48
Manderson, Devey E., Jan 28 p 48
Mann, J. F., Feb 25 p 74

Mann, J. Keith, Jan 7/14 p 122; Mar 25 p 56

Manning, C. H., Feb 25 p 74*
Manning, Leonard, Feb 18 p 54
Mannion, M. L., Mar 11 p 46
Mapp, William H., Mar 11 p 47
Marchetto, Ben P., Feb 4 p 29
Marcus, A. A., Mar 18 p 33
Marquardt, C. E., June 10 p 21
Marr, George R., June 24 p 88
Marsh, A. R., Apr 15 p 39
Marsh, Ernest S., Apr 22 p 34
Marsh, H. S., June 17 p 46
Marshall, W. A., Apr 15 p 39
Marten, William W., Feb 25 p 75
Martin, Edward R., Jr., Jan 28 p 48
Martin, L. W., Feb 11 p 34
Martin, E. L., Mar 18 p 33
Martin, R. L., Apr 22 p 32
Martin, T. W., Jan 28 p 33
Martin, R. L., Apr 22 p 32
Martin, T. W., Jan 28 p 26; Apr 29 p 52;
June 3 p 30
Marts, T. B., Jan 28 p 47
Mason, Aubry T., May 20 p 46
Mansey, P. J., Feb 11 p 34
Mathews, Carrol G., June 24 p 88
Mathews, Glen W., Apr 22 p 33
Matro, Nicholas P., Feb 18 p 63
Matrews, C. B., Feb 4 p 28
Mau, Emil W., June 3 p 30
Maxwell, Gregory W., Apr 22 p 33
Maxwell, Gregory W., Apr 22 p 33
Maxwell, Ray, Feb 18 p 52
Mayarard, J. P., Jan 28 p 48
McSrearty, F. X., Feb 1 p 54
McCadlum, Jan 38
McSrearty, F. X., Feb 1 p 52
McCadlum, Jan 39
McCluste, M. M., Jan 28 p 48
McCucheon, D.F. Frank B., June 3 p 30
McCluste, R. M., June 3 p 30
McCluste, R. M., June 3 p 30
McCluste, R. M., June 3 p 30
McCluste, D. E., Apr 29 p 51
McCormick, R. E., Jan 21 p 28
McGowan, Carl, Apr 29 p 51
McCormick, R. E., Jan 28 p 48
McGreerty, D. E., Apr 29 p 51
McCormick, R. E., Jan 28 p 49
McGrath, D. O., Apr 15 p 38
McGutcheon, D. Frank B., June 10 p 23
McGowan, Carl, Apr 22 p 32
McDonald, C. E., Jan 28 p 49
McGrath, D. O., Apr 15 p 38
McGutcheon, D. Frank B., June 10 p 23
McGowan, John G., Jan 28 p 49
McGrath, D. O., Apr 15 p 38
McGreevy, Michael E., June 10 p 23
McGowan, Jack E., May 20 p 46
McGrath, D. O., Apr 15 p 38
McGutcheon, D. Frenk B., June 10 p 23
McGowan, June 17 p 46
McLaughlin, Richard A., Jan 21 p 29
McKenna, J. T., Apr 29 p 52
McKenna, J. T., Apr 29

PEOPLE IN THE NEWS-Continued

[*Indicates photograph]

Mitchell, M. G., June 3 p 30

Mitchell, Morris E., Mar 11 p 47

Mitros, John D., Jan 7/14 p 48*

Moberg, A. W., Apr 1 p 30

Monaghan, M. G., Feb 18 p 52

Monday, Jack R., Feb 4 p 30

Monnore, Thomas R., May 20 p 46

Montetth, R. M., Jan 28 p 48

Montetth, R. M., Jan 28 p 48

Montetth, R. M., Jan 29 p 51

Moore, E. J., June 17 p 46

Moore, John H., Jan 7/14 p 82

Moore, Moore, Morthan C., Jan 21 p 28

Moore, Mortha C., Jan 21 p 28

Moore, Mornas D., Jr., June 3 p 30

Moore, Mornas D., Jr., June 3 p 30

Moore, Mornas D., Jr., June 3 p 30

Moore, William G., June 10 p 21

Moore, William G., June 10 p 21

Moore, William G., June 10 p 21

Moore, William G., June 17 p 47

Mornan, Frank E., Jr., Feb 18 p 52

Morena, Joseph, Jan 21 p 29

Morgan, H. G., June 17 p 47

Mortarty, G. D., Jan 28 p 47; Feb 11 p 34

Morris, Co. J., Jan 28 p 47; Feb 11 p 34

Morris, C. G., Jan 28 p 47; Feb 11 p 34

Morris, Howard, Mar 4 p 35*

Morrison, Carlos T., Apr 28 p 52

Morrison, Carlos T., Apr 28 p 52

Morrison, George L., Feb 11 p 35

Morrison, Carlos T., June 24 p 88

Moses, R. G., Mar 11 p 47

Mosteller, Joseph B., Jr., June 10 p 23

Mowers, W. Howard, Feb 18 p 54

Murlay, J. Glen, May 20 p 46

Mundy, Herbert E., Mar 11 p 47

Mosteller, L. D., Apr 22 p 33

Mullany, A. Glen, May 20 p 46

Murdy, G. A., Jan 7/14 p 64

Murly, John C., Jan 28 p 48

Murphy, John C., Jan 28 p 48

Murphy, John C., Jan 28 p 48

Murray, V. J., Mar 25 p 60

Naden, William, Apr 22 p 33
Nance, A. G., Jan 7/14 p 82
Narin, D. W., Mar 18 p 33
Nash, J. E., May 20 p 46
Nash, John F., June p 21*, p 23
Navin, F. E., May 6 p 20; June 10 p 21
Neal, Charles E., Feb 1 p 34*, p 35
Neal, Glenn E., Feb 4 p 29
Neil, H. R., May 20 p 46
Neison, Leslie W., May 6 p 20
Nevius, Bruce E., Feb 18 p 52
Newberry, David F., June 3 p 27; June 17
p 47
Newberry, L. L., Feb 4 p 28
Newberry, David F., June 3 p 27; June 17
p 47
Newberry, L. L., Feb 4 p 28
Newman, Donaid A., May 20 p 46
Nicholas, Raiph W., June 24 p 96
Nicholas, Thomas D., Apr 29 p 52
Nichols, i. R., May 13 p 28
Nick, Charles A., Feb 11 p 34
Nicolati, Vincent P., May 20 p 46
Nisen, Gerald A., May 13 p 29
Nitsch, Robert A., Jan 21 p 29
Nitsch, Robert A., Jan 21 p 29
Nolan, J. W., Apr 29 p 51
Nolan, Justin J., Apr 29 p 53
Nomburg, Frank K., Feb 4 p 28
Norton, Francis S., Mar 11 p 47
Norton, Roby G., Jan 7/14 p 64
Nottelmann, O. Robert, Apr 22 p 33
Nowakowski, A. V., Feb 4 p 28
Nugent, Walter R., Feb 4 p 35

0

O'Brien, Warren T., Mar 11 p 47
O'Brien, William J., Feb 18 p 52
O'Bryan, Perry M., Feb 4 p 28
O'Conneil, Thomas J., June 10 p 21
O'Connor, Bernard P., Jan 7/14 p 84
O'Connor, Gerry, Apr 22 p 33
O'Connor, W. L., Mar 18 p 33
O'Connor, W. L., Mar 18 p 33
O'Connor, W. L., Mar 18 p 52
Odom, Howard, Feb 18 p 52
Odom, Howard, Feb 18 p 52
Ogle, James J., June 10 p 23
O'Grady, Joseph E., Feb 11 p 35
O'Keefe, G. A., Jan 21 p 29
Oler, William H., Feb 18 p 54
Olesen, J. M., May 13 p 29
Oliver, Earl, Jan 7/14 p 82; Feb 11 p 34*
Oliver, P. R., Mar 25 p 80
Oliver, Earl, Jan 7/14 p 82; Feb 11 p 34*
Oliver, P. R., Mar 25 p 80
Oliver, P. R., Mar 28 p 47
Oliver, Arthur G., Feb 25 p 75
Olson, Arthur E., Feb 11 p 34
Olson, E. H., Feb 25 p 75

Olson, R. A., Mar 18 p 33
Olson, Rode C., May 20 p 46
Omlor, Robert E., Feb 11 p 19
O'Neill, J. D., Apr 18 p 38
Onken, George M., Feb 18 p 52
O'Rourke, F., Feb 18 p 52
O'Rourke, G. J., Jr., Jan 28 p 47
Osborne, W. Irving, Jr., June 24 p 88°, p 38
Osterdock, Richard K., Mar 11 p 46
Osterland, William H., Apr 29 p 53
O'Toole, Paul J., Feb 25 p 74
Otten, William C., Jan 28 p 47

Pace, C. Acree, Feb 11 p 34
Paddock, James A., Mar 18 p 29
Palmer, A. C., Jr., Feb 18 p 52
Palmer, Mark, Mar 18 p 33
Paper, Meyer, Mar 18 p 33
Paper, Meyer, Mar 18 p 33
Park, John H., Jan 28 p 47; Feb 11 p 34
Parke, Torsten E., May 27 p 88
Parker, Ralph W., Feb 4 p 28
Parks, W. W., Jan 28 p 46
Parrish, Vincent D., Apr 8 p 70
Parsons, J. R., Jr., Feb 4 p 28
Paternoster, L. J., Apr 15 p 39
Patrick, J. C., June 24 p 89
Patrerson, J. E., June 10 p 21
Payne, D. G., Jan 28 p 47
Peak, Earl M., Jan 21 p 28
Pearson, Bertal E., May 13 p 29
Pedersen, Bernard E., Mar 11 p 47
Perk, Earl M., Jan 21 p 28
Perry, C., Feb 11 p 35
Perkins, R. L., Jan 28 p 47
Perman, Alfred E., June 10 p 7
Persinger, Charles A., Mar 11 p 46; Apr 15 p 36
Peters, Russell L., May 20 p 48
Petersen, Lavid E., June 24 p 89
Petersen, Lavid E., June 24 p 89
Peterson, Lavid E., Jr., June 3 p 30
Peterson, Lavid E., Jr., June 3 p 30
Peterson, Lavid E., Jr., June 3 p 30
Peterson, H. A., June 2 p 47
Peterson, Warren B., May 13 p 29
Piaffenberger, John H., Mar 11 p 47
Piasterer, G. R., Jan 28 p 47
Peterson, Warren B., May 13 p 29
Piaffenberger, John H., Mar 11 p 47
Pilasterer, G. R., Jan 28 p 47
Peterson, Warren B., May 13 p 29
Piaffenberger, John H., Mar 11 p 47
Pilasterer, G. R., Jan 28 p 47
Peterson, Warren B., May 13 p 29
Piaffenberger, John H., Mar 11 p 46
Phillips, Bernard, Feb 11 p 36
Pilott, N. F., Mar 11 p 46
Phillips, Bernard, Feb 12 p 30
Picterson, B., Apr 19 p 30°
Piatt, George A., Feb 18 p 53
Picklesimer, R. J., May 27 p 66
Pierce, Robert L. Mar 11 p 46
Pierce, Williard E., June 3 p 30°
Piercre, R. Jan 3 p 50°
Pierson, B. C., Apr 15 p 39
Pland, H. H., Jan 714 p 82
Plummer, Kenneth V., Jr., May 20 p 48°
Poulard, J. A., Jan 714 p 82
Pourder, D., Jane 3 p 30°
Porter, Royand J., Mar 11 p 47
Piddy, Richard H., June 10 p 21
Pritchard, Kenneth E., Feb 4 p 28
Prate, B. M., Jan 28 p 48
Purdy, Donal

Quan, Emmett D., Mar 11 p 47 Quigley, LeRoy M., June 17 p 48; June 24 p 88

R

Radspinner, R. S., June 24 p 88
Raftus, Allan W., Feb 11 p 34
Ragland, John B., Jr., Feb 18 p 52
Rainte, Barrison M., June 3 p 30
Ramsey, James W., Jr., Mar 25 p 60
Ramseyek, Theodore R., Jan 28 p 48
Rangod, W. J., May 20 p 46
Rank, Kenneth A., Mar 11 p 47

Rank, William C., Apr 15 p 39
Rasmussen, Paul A., June 24 p 89
Rauchenberger, L. L., Jan 28 p 47
Ray, Ernest L., Mar 25 p 60
Ray, J. B., Feb 11 p 94
Rayburn, Richard G., June 10 p 21*
Rea, Richard H., Apr 22 p 33
Read, Harold L., June 10 p 21
Reaves, H. Bruce, Jr., Feb 25 p 75
Reddick, W. C., Mar 11 p 46
Reddington, E. C., Feb 25 p 74
Reed, F. D., June 24 p 89
Reed, Kenneth T., Feb 18 p 52*; June 24
p 88
Reedy, C. F., May 6 p 20
Rees, Virginia L., Apr 1 p 30
Regan, John J., Feb 25 p 75
Regan, Waiter J., Apr 6 p 70; May 20 p 46
Reil, Donald F., Jan 7/14 p 82*, p 84
Reichard, Lester H., June 10 p 21
Reilly, George P., Apr 26 p 73
Reilly, R. H., Feb 11 p 34
Reine, John, Apr 15 p 39
Reisinger, C. G., May 13 p 28
Reiss, Randolph, Feb 18 p 52
Remo, William F., June 10 p 23
Reynolds, Charles R., Feb 11 p 34
Reynolds, Hardy G., June 10 p 23
Reynolds, Charles R., Feb 11 p 34
Reynolds, Hardy G., June 10 p 21
Richards, Edwin T., June 3 p 30
Rice, E. W., Mar 11 p 46
Rice, James T., June 3 p 30
Rice, W. T., June 10 p 21
Richards, R. W., June 10 p 21
Richardson, Joseph R., May 27 p 66
Richardson, Thomas C., June 10 p 23
Richomod, J. M., Mar 18 p 33
Rickhoff, E. H., May 13 p 28
Riddick, Richard A., Jan 28 p 48
Richardson, Thomas C., June 10 p 23
Richmond, D. H., Jan 28 p 46
Richmond, J. M., Mar 18 p 33
Rickhoff, E. H., May 13 p 28
Riddick, Richard A., Jan 28 p 48
Riedinger, Royal C., Apr 8 p 70
Rieke, W. R., June 10 p 21
Rilay, G. W., Apr 22 p 32
Ringel, Richardes, Apr 29, p 51
Ripey, George C., Apr 8 p 70
Rieke, W. R., June 10 p 21
Riley, G. W., Apr 22 p 32
Ringel, Richardes, Apr 29, p 51
Ripey, Goorge C., Apr 8 p 70
Rieke, W. R., June 10 p 21
Riley, G. W., Apr 29 p 52
Robertson, J. T., June 3 p 30
Robertson, William E., Jr., Apr 8 p 70
Robichaud, Roy A., Mar 27 p 68
Robinson, C. L., Apr 29 p 52
Robertson, William E., Jr., Pap 8 p 70
Richie, Robert B., Mar 11 p 47
Ritter, Leo J., Mar 4 p 35
Rocak, Michael W., June 3 p 30
Robertson, William E., Jr., Pap 8 p 80
Robos, Jack M., May 27 p 68
Rose, William B., Apr 29 p 53
Roboshum

Saaby, Walter N., Apr 29 p 51°, p 52
Sabin, George N., June 24 p 96°
Sager, Ray W., Jan 28 p 46
St. John, W. R., May 6 p 20; June 17 p 46
Sailors, R. F., Apr 22 p 33
Salvato, Albert R., Apr 15 p 39
Sandberg, Carl F., Jan 28 p 48
Sanders, Marion T., Apr 1 p 30
Sanderson, C. S., May 13 p 28°
Sandbotf, T. W., Mar 25 p 60
Sanok, Thomas J., Apr 29 p 51
Sanschagrin, C. E., Apr 15 p 38
Sass, Clifton H., Jr., Jan 21 p 30

Sassaman, G. M., Feb 4 p 28
Saunders, T. D., Apr 8 p 70
Sawyer, Edward W., June 3 p 20
Scannell, Daniel T., Feb 11 p 35
Schaaf, F. J., Mar 11 p 12
Schade, George D., Apr 29 p 52
Schaefer, L. E., June 17 p 47
Schaler, W. C., Apr 15 p 30
Schatzman, R. C., Mar 25 p 60
Scheidt, Frank C., June 24 p 89
Scheu, F. C., Apr 1 p 30
Scheiter, Frank C., June 24 p 89
Scheu, F. C., Apr 1 p 30
Schlichting, A. H., Apr 1 p 30
Schmale, Francis L., Mar 18 p 33
Schmale, Francis L., Mar 18 p 33
Schmid, John H., June 10 p 21
Schmidt, George J., June 24 p 89
Schmidt, H. C., Jan 28 p 47
Schmidt, H. C., Jan 28 p 47
Schmidt, William H., Jr., Feb 4 p 28*
Schonn, K. William H., Jr., Feb 4 p 28*
Schoen, Echard D., Apr 28 p 51
Schoene, Lester P., Mar 25 p 56
Schofield, A. M., Apr 15 p 39
Schoone, Lester P., Mar 25 p 56
Schorier, C. J., Apr 18 p 39
Schroder, Frederic J., Jan 28 p 49
Schroeter, Frederic J., Jan 28 p 49
Schroeter, Frederic J., Jan 28 p 49
Schroeter, Frederic J., Jan 29 p 49
Schwartz, Lawrence E., Feb 11 p 34
Schultz, Norman L., June 17 p 47
Schulze, William H., Apr 15 p 36
Schrower, Lawrence E., Feb 11 p 52
Schuster, K. A., Apr 18 p 59
Schwartz, F. C., Jan 21 p 29
Schwartz, F. C., Jan 21 p 26
Schwartz, J. W., June 17 p 47
Schwartz, F. C., Jan 21 p 29
Schwartz, F. C., Jan 21 p 29
Schwartz, F. C., Jan 21 p 30
Shapiro, Harry, Apr 15 p 38
Sheeman, Samuel W., Apr 29 p 51
Seebastian, D. J., Apr 29 p 51
Seebastian, D. J., Apr 29 p 51
Seebastian, D. J., Apr 29 p 51
Sembers, Ghares, June 17 p 47
Sheffield, Chester H., June 3 p 30
Sheffield, R. L., Jan 2 p 48
Sheldon, Leslie E., June 24 p 89
Shelmon, E. G., June 10 p 23
Simpt, Walter W., June 10 p 23
Simpt,

Smith, Warren J., Mar 11 p 46
Smouse, H. Russell, Mar 11 p 46
Smouse, H. Russell, Mar 11 p 46
Smoll, E. V., Apr 28 ps 15 royder, Harold L., June 24 p 89
Sokel, C. J., Jan 28 p 48
Sokel, C. J., Jan 28 p 48
Solandt, O. M., May 13 p 28
Somerville, W. H., Jan 7/14 p 82
Somer, Murray, Jan 21 p 28
Sorie, Richard, June 24 p 90
Southerland, H. L., Jan 28 p 47
Spannring, R. W., Apr 1 p 30
Sparrow, William N., May 13 p 28
Speuding, R. W., Apr 1 p 30
Sparrow, William N., May 13 p 29
Speirs, N. P., June 17 p 9e
Speer, R. C., May 13 p 29
Speirs, N. P., June 17 p 9e
Sperrey, John C., Apr 15 p 39
Sperrey, Gordon, June 3 p 30
Sperry, John C., Apr 15 p 39
Spireng, J. P., Jr., Feb 25 p 74
Spurgeon, P. O., Jan 28 p 47
Stage, Charles S., Jan 28 p 48; Mar 11 p
47; Apr 29 p 52
Staht, Richard, Jan 7/14 p 33*
Stansfield, C. T., Jan 21 p 28*, p 29
Stark, Nell B., Feb 4 p 30
Starker, Dan, Mar 16 p 33
Starc, Claude E., June 10 p 23
Steadman, William D., June 24 p 89
Steele, Thomas L., May 20 p 46*
Steele, Thomas L., May 20 p 46*
Steele, Thomas L., May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stevart, John S., Apr 8 p 70; May 20 p 46
Stever, S.F., Feb 18 p 52
Stolbe, E., Sr., Feb 18 p 52
Stolbe, E., Sr., Feb 18 p 52
Stolbe, E., Sr., Feb 18 p 52
Stoltzman, Leslie H., Mar 11 p 47
Stone, D. R., Feb 25 p 74
Storder, C. H., Apr 29 p 52
Storder, Glibert P., Jan 28 p 48
Stotts, H. L., Jan 7/14 p 82
Strobell, Paul N., Apr 15 p 38* p 39
Stromberg, G. Clifford, Feb 4 p 28
Strobell, Paul N., Apr 15 p 39
Stromberg, G. Clifford, Feb 4 p 28
Strobell, Paul N., Apr 15 p 30
Sullivan, J. W., Apr 1 p 30
Sullivan, J. W., Apr 1 p 30
Sullivan, J. W., Apr 1 p 30
Sullivan, J. W., Ap Stumpt, william J., June 10 p 21 Sturdivant, J. L., Jan 28 p 48 Sullivan, A. C., May 20 p 46 Sullivan, J. W., Apr 1 p 30 Sullivan, James M., Jan 28 p 48 Sullivan, John J., Apr 22 p 32 Sullivan, P. J., Jan 28 p 47; Feb 11 p

34 Summers, O. H., Mar 11 p 46 Summers, William A., June 24 p 89 Sutherland, D. A., Jan 7/14 p 85 Sutherland, D. A., Jan 7/14 p 85
Sutha, J., Jan 28 p 46
Svehlak, J. T., Jan 28 p 46
Swan, Richard H., Apr 22 p 32
Swartz, W. A., Jan 7/14 p 82
Swauger, J. D., Jan 28 p 48
Sweet, G. L., Mar 18 p 33
Sweet, Martin J., Mar 11 p 12
Swierenga, Fred J., June 17 p 46
Swift, W. R., June 24 p 89
Swingle, W. E., Apr 15 p 38°, p 39
Swingle, W. E., Apr 15 p 38°, p 39
Swingle, W. E., Apr 15 p 38°, p 39
Sylett, Earl G., May 27 p 68
Symes, James M., Mar 25 p 84

T

Tabor, W. F., Apr 15 p 38 Tack, Carl E., Mar 25 p 54* Tackett, Donald E., Jan 28 p 48; Mar 11 p

ATAT, Walter J., Jan 7/14 p 31*
Taggart, William W., June 24 p 89
Taggart, Milliam W., June 24 p 89
Taghader, Marvin E., June 17 p 46
Tamisiea, Miles F., Apr 29 p 53
Tann, Theodore E., Feb 25 p 74
Tanner, William B., May 27 p 66
Tapper, M. M., Apr 15 p 38
Tarlas, Hercules D., Feb 4 p 29
Tarl, E. H., Jan 7/14 p 82
Tate, W. E., Mar 11 p 46
Talum, A. S., Apr 15 p 38
Talum, Griffin, June 24 p 89
Taylor, A. B., Jr., Jan 28 p 48
Taylor, Aian B., June 17 p 47
Taylor, Ernest, Mar 18 p 33
Taylor, J. B., Jr., June 10 p 21
Taylor, M. I., Jan 28 p 46
Taylor, J. P., Jr., June 10 p 21
Taylor, M. I., Jan 28 p 46
Taylor, J. S., John 23
Taylor, J. P., Jr., June 24 p 89*
Taylor, Samuel J., Jan 7/14 p 82
Taylor, Stephen F., June 24 p 86*
Taylor, William H., Mar 25 p 60
Teel, D. W., June 10 p 23
Teeter, G. W., May 27 p 86
Temple, E. A., June 24 p 88*
Tench, J. R., June 24 p 88*
Tench, J. R., June 24 p 89
Terrass, J. M., Mar 11 p 47
Terrill, J. W., Feb 18 p 52
Teskey, Douglas A., Feb 11 p 34; Apr 29
p 51
Thaler, David, Apr 8 p 70*
Thaxton, Chris L., Jan 28 p 48
Thimm, Theodore F., June 17 p 47
Thomas, B. H., Apr 15 p 39
Thomas, Charles A., Apr 15 p 16*
Thomas, Fank J., Apr 29 p 52
Thomas, Harry K., June 24 p 96
Thomas, Charles A., Apr 1 p 30
Thomason, H. I., Apr 8 p 70
Thomason, H. P., June 24 p 88
Thompson, Clarence R., Feb 18 p 53
Thompson, H. P., June 24 p 86
Thompson, M. Feb 4 p 28
Thompson, M. Feb 4 p 28
Thompson, R. H., Feb 4 p 29
Towns, Ronald E., Apr 29 p 51
Tilsch, John W., Apr 19 p 50
Tilsch, John W., Apr 19 p 50
Tilsch, John W., Apr 29 p 51
Trikkanen, Richard, Apr 29 p 51
Trikkanen

18 p 33 Turner, D. R., Jan 28 p 46 Tydings, M. E., Mar 4 p 35

U

Underwood, Frank C., June 24 p 89 Ure, John S., Apr 22 p 33

V

Vallely, W. A., Apr 15 p 38 Vandegrift, James G., Feb 4 p 28; Mar 11 p 47

Vanderlaag, John W., Mar 11 p 47
Van Dreese, L. J., May 13 p 28
Van Gorkom, J. W., Apr 15 p 39
Van Gorp, Peter H., Mar 4 p 35
Van Hook, Ray M., Mar 11 p 47
Van Kirk, John, Feb 25 p 78
Vaughan, Byron L., Mar 11 p 46
Vaughn, Harold H., Apr 8 p 70; Apr 15 p
39

June 1, Apr 15 p 39
Vaughn, V. A., June 24 p 88
Veemis, Richard M., Mar 11 p 46; Apr 15 p 39
Vincent, D. L., Apr 15 p 39
Vincent, J. P., Apr 15 p 39
Virolkey, A. R., June 3 p 30
Viviano, B. J., Jan 7/14 p 84
Vogenberger, Harry W., Jr., Apr 8 p 70
Voges, George R., May 27 p 68
Vols, Ernest J., June 10 p 21
Volkers, Gordon A., Jan 7/14 p 82*; June 10 p 21
Volkers, Federick T., Feb 25 p 74
Vorches, Frederick T., Feb 25 p 74
Vorches, Kenneth L., Feb 25 p 74*; Mar 25 p 60

p 60 Voth, Karl A., Feb 25 p 74

W

Waelde, C. E., Feb 4 p 28 Wagner, L. J., June 17 p 9* Wagner, William B., Apr 15 p 38 Wait, Ward H., Feb 4 p 28; June 17 p 46,

p 47* Waite, David L., June 3 p 27; June 17 p 47

Watt, Ward H., Feb 4 p 28; June 17 p 46, p 47°

Watte, David L., June 3 p 27; June 17 p 47

Wates, V. C., Apr 15 p 38; June 24 p 88

Walke, L. E., Jr., Mar 11 p 47

Walkes, R. G., Feb 11 p 5 38

Wall, E. G., Feb 11 p 17

Walker, R. A., Apr 15 p 38

Wall, E. G., Feb 11 p 36

Wallace, George R., Jan 7/14 p 82°, p 84

Wallace, George R., Jan 7/14 p 82°, p 84

Wallace, James C., Jan 7/14 p 82; Feb 18

p 52

Wallendorf, Robert W., Mar 11 p 46

Walser, John F., Apr 15 p 38

Walton, Harry I., June 10 p 21

Walton, Harry I., June 10 p 21

Walton, Harry I., June 10 p 35

Ward, L. B., May 13 p 28

Warren, D. R., Jan 28 p 48; Mar 18 p 33

Warren, James P., Feb 11 p 35

Warren, W. F., Jan 28 p 48

Warsen, James P., Feb 11 p 35

Wasserman, Henry N., Mar 4 p 35

Wasserman, Henry N., Mar 4 p 35

Wasser, Robert H., Apr 22 p 33

Way, Franklin, Apr 22 p 33

Way, Franklin, Apr 22 p 33

Way, M. R., May 27 p 66

Weaver, W. K., Jr., Jan 28 p 48

Weital, James K., June 10 p 21

Welt, Edward S., June 24 p 89

Weirich, H. P., Feb 18 p 54

Weels, Parkick J., June 10 p 21

Well, Edward S., June 24 p 89

Weirich, H. P., Feb 18 p 54

Weelsh, Parkick J., June 10 p 21

Well, Gus, Jan 7/14 p 29°

White, Larnek M., Mar 25 p 59

White, Charles H., Feb 11 p 35

West, Henry V., Jr., Jan 28 p 48

White, Garret C., June 24 p 89

White, Frank M., Mar 25 p 59

White, Frank M., Mar 25 p 59

White, Harold G., Apr 22 p 32

White, James A., Jr., Apr 29 p 52

White, Larold G., Apr 22 p 32

White, James A., Jr., Jan 28 p 48

White, James A., Jr., Apr 29 p 52

White, James A., Jr., Apr 29 p 52

White, R. P., Apr 22 p 32

White, James A., Jr., Apr 29 p 52

White, T. J., Feb 4 p 28

White, William, Apr 29 p 70; May 13 p 36; June 10 p 7; June 17 p 7; June 24 p 86 Whitehead, Lyle R., June 17 p 46

White, William. Apr 29 p 70; May 13 p 38; June 10 p 7; June 17 p 7; June 18 whitehead, Lyle R., June 17 p 46 Whitfield, Arthur L., June 3 p 30 Whitman, Frank R., Feb 4 p 28* Whittle, W. J., Jan 7/14 p 82 Whittle, W. J., Jan 7/14 p 82 Whittle, W. J., Jan 7/14 p 82 Whittle, W. J., Jan 25 p 59 Wieters, William C., Apr 15 p 39 Wiggans, B. W., Feb 11 p 34 Wiggins, James W., June 3 p 30* Wiggans, B. W., Feb 11 p 34 Wilkins, Robert W., June 3 p 30* Wilkins, Robert W., June 24 p 88 Williams, C. Edgar, Feb 25 p 76 Williams, C. Edgar, Feb 25 p 76 Williams, C. Edgar, Feb 25 p 74 Williams, Chester T., June 10 p 21 Williams, C. Apr 1 p 30 Williams, G. A., Apr 15 p 30 Williams, Chester T., June 10 p 21 Williams, G. A., Apr 15 p 30 Williams, H. H., May 20 p 46 Williams, Oscar A., Apr 1 p 30 Williams, Coscar A., Apr 1 p 30 Williams, L. L., Mar 4 p 35* Willison, L. H., June 24 p 88*, p 89 Wilson, L. A., Jan 26 p 47 Wilson, W. E., June 10 p 21 Wilson, W. F., June 10 p 21 Wilson, William B., Jan 21 p 28 Windisch, R. A., Jan 26 p 47 Wilson, W. F., June 10 p 21 Wingard, Raymond R., Feb 18 p 53 Winster, Edward A., Apr 29 p 53 Winster, L. A., Jan 71 p 9 p 53 Winster, L. A., Jan 71 p 9 p 53 Winster, L. A., Jan 26 p 47 Wilson, W. E., June 10 p 21 Wilson, Wilson, Feb 18 p 53 Winster, L. A., Jan 71 p 9 p 53 Winster, L. A., Jan 71 p 9 p 53 Winster, L. A., Jan 71 p 9 p 53 Winster, L. May 20 p 48; May 27 p 800 Wilson, L. Mar 18 p 8*; June 17 p 9* Wolfe, J. E., May 20 p 48; May 27 p 800 Wilson, H. G., Feb 18 p 53 June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe, J. E., May 18 p 8*; June 17 p 9* Wolfe

Wolf, Peter J., May 20 p 48; May 27 p
87*

Wolfe, J. E., Mar 18 p 8*; June 17 p 9*
Wolven, H. G., Feb 18 p 52
Wood, G. D., June 10 p 21
Wood, H. L., Jan 28 p 48
Wood, H. L., Jan 28 p 48
Wood, H. T., Hilton A., Jan 28 p 48
Woodburs, H. E., June 24 p 90
Wooters, Robert B. Apr 15 p 30
Workman, Willard, Mar 11 p 47
Wordbey, Lawrence, June 10 p 21
Wright, Z. W., Mar 25 p 58*; June 24 p
70*
Wright, J. C., Jan 28 p 48
Wright, J. Harold, Feb 18 p 54
Wright, J. Harold, Feb 18 p 54
Wright, J. Mars D., Jan 7/14 p 82*
Wright, W. R., Feb 11 p 34

Y

Yerger, H. C., Feb 25 p 74 Yocas, William V., Jan 7/14 p 82 Yocum, W. R., Feb 4 p 28 Young, H. Ben, Jan 21 p 30 Young, W. J., Mar 11 p 46 Youngblood, C. Jackson, Jan 28 p 48

Z

Zazzarino, Anthony J., Apr 29 p 53
Zebe, Eugene R., Feb 25 p 74
Zeiss, Dr. Chester R., June 17 p 46
Zieber, Elwood, Apr 6 p 70
Zimmerman, Charles H., Mar 11 p 46
Zimmerman, D. W., June 3 p 30
Zimmerman, Truce C., June 24 p 89
Zimmons, R. D., Apr 22 p 33
Zydor, H. P., Jan 28 p 47

OBITUARY

Allison, B. D., Feb 4 p 30 Anderson, Emil C., Apr 8 p 70 Ater, R. W., Mar 18 p 33

Bekemans, J. C., Apr 22 p 33
Bennett, Dr. Richard J., Jr., Feb 4 p 30;
June 17 p 46
Frainerd, Ezra, Jr., Feb 4 p 30
Bright, Lloyd N., Jan 7/14 p 85
Bryson, George L., May 27 p 68
Bunce, Clarence O., Jan 7/14 p 85; Feb Bunce, Clarence O., Jan 7/14 p 85 11 p 35 Burns, Thomas W., Jan 7/14 p 82

Carr, G. M., Apr 15 p 39; Apr 22 p 33 Channing, J. N., Mar 18 p 33 Cughlan, Robert E., May 8 p 20 Craft, F. R., Jan 28 p 46 Crosby, George J., May 27 p 66 Cummings, Raymond D., June 10 p 23

Davis, Hugh N., Jan 21 p 30; Feb 11 p 35 Dawkins, C. M., Jan 28 p 49 Ekin, John J., Jan 28 p 49 Gardner, John H., Jr., Mar 25 p 60 Green, Harry V., Apr 22 p 33

Gregory, Sam, Mar 25 p 59, p 60 Gunlock, V. E., Apr 1 p 30

Hall, Edred B., Sr., Apr 15 p 39
Hamilton, W. S. R., Apr 29 p 53
Harding, Carroll R., Mar 11 p 47
Hays, Howell H., Apr 29 p 51
Henricson, G. O., Mar 4 p 35
Hill, John G., Apr 8 p 70
Hucksold, August F., Jan 7/14 p 85; Feb
4 p 28

Jackson, W. R., May 27 p 66 Jobaria, Joseph N., June 3 p 30; June 10 p 21 Jorgensen, L. C., May 6 p 20

Kamp, Henry, May 6 p 20 King, Robert E., Jan 7/14 p 85; Jan 28 p, 88 Kossuth, Frank, Feb 11 p 35

Linkins, Mary B., Jan 28 p 48 Linton, Robert J., Apr 29 p 51

MacArthur, Horatio W., June 24 p 90

Marks, Wirt P., Jr., June 17 p 47
McAfee, Robert S., June 24 p 89
McAllister, Angus, Mar 4 p 35
McCreary, C. G., May 27 p 86
McFadden, J. D., Mar 11 p 46
McGahey, Robert E., Mar 4 p 35
McGarry, John J., June 24 p 90
McGee, Homer E., Feb 25 p 75
McGrath, Walker B., May 27 p 68
Miller, Herry, Jr., June 17 p 47
Moran, James F., Jan 28 p 49
Morris, LeRoy, Sr., May 27 p 68
Morton, Frank W., Feb 11 p 35; Mar 25 p
80
Mullek, George, J., Jan 7/14 p 85; Feb 4
p 28
Mullen, Francis R., May 27 p 68

Nelson, William N., Jan 7/14 p 85 Newcomer, G. H., June 17 p 47

O'Connell, Daniel J., Feb 4 p 30

Parsons, John A., Jan 28 p 49 Patterson, Charles L., Feb 11 p 35 Pfleger, Charles W., Mar 18 p 33

Roth, J. J., June 17 p 46 Rutherford, Frost B., Mar 11 p 47

Schrader, Fred L., Feb 11 p 35 Schuermann, Joseph H., Apr 15 p 39 Slania, W. J., Apr 15 p 38 Smith, Raiph C., Mar 4 p 35 Splawn, Walter M. W., Jan 28 p 49 Sughrue, Timothy G., May 6 p 20

Taylor, Harold A., Feb 4 p 30; Mar 11 p 47 Tunstead, Joseph L., Mar 18 p 33 Type, C. E., June 17 p 47

Van Der Velde, John, Apr 8 p 70

Weil, Herbert C., Apr 22 p 33 Westenhoff, Alphonse M., Mar 11 p 47; Apr 29 p 53 Whitmore, Harold F., May 27 p 68 Wilkes, B. S., Apr 15 p 38 Willis, Ernest M., Apr 22 p 33 Wood, Henry J., Feb 25 p 75

Zelner, William E., Jan 7/14 p 85



RAILWAY AGE weekly

INDEX

One Hundred and Fifty-Fifth Quarto Volume

July 1, 1963 to December 31, 1963

One Hundred and Eighth Year, Second Half

JAMES G. LYNE, Editor ROBERT G. LEWIS, Publisher LUTHER S. MILLER, Executive Editor

Signaling & Communications
Robert W. McKnight

Editorial Director George Dusenbury
Art Director Joel Petrower
Editorial Assistants

June Meyer Joseph Asher
Director of Research ... J. W. Milliken
Librarian ... Edith C. Stone
Production Manager ... Joseph J. Menkes

Chicago, III. 60602,
 22 W. Madison St.

Western Editor......John D. Mitros
Regional News....David Thaler
Mechanical....Norman E. Gillespie
Engineering.....M. H. Dick
R. E. Dove E. W. Hodgkins, Jr.
Purchases & Stores....William V. Tuite
Editorial Assistant....Wanda Brown

 Washington, D. C. 20004, National Press Bldg.

Washington Editor......Walter J. Taft

 London, W. 1, England, 63/65 Piccadilly

International Editor......Paul Goldsack

JOE W. KIZZIA, Consulting Editor GUS WELTY, Senior Editor

Advertising Sales Department

Duane C. Salisbury—director of sales

New York, N. Y. 10007, 30 Church St., WOrth 4-3060 J. S. Vreeland—vice president; W. A. Cubbage J. E. Rogers

Chicago, III. 60602, 22 W. Madison St. RAndolph 6-0794

J. R. Thompson—vice president; K. F. Sheeran—regional vice president; G. W. Ballinger

Cleveland, Ohio. 44115, 1501 Euclid Ave., MAin 1-4455

H. H. Melville—vice president; C. J. Fisher—district manager

Pittsburgh, Pa. 15219, Suite 203,

Carlton House GRant 1-8186

C. J. Fisher—regional vice president

Atlanta, Ga. 30309, 22 Eighth St., N. E., TRinity 2-6720—J. S. Crane

Dallas, Tex. 75219, 3915 Lemmon Ave., LAkeside 1-2322—Joseph Sanders

Los Angeles, Cal. 90017,1336 Wilshire Blvd. HUbbard 3-8414—Fred Klaner, Jr.

San Francisco, Cal. 94111, 916 Kearny St. GArfield 1-7004—Lewis Vogler & Co.

London S. W. 1, England

TRAfalgar 6318 67/68 Jermyn St., St. James's Max F. Holsinger; Ian Goulden; A. T. Chapman-Purchas; John Thornton

Harrogate, Yorkshire, England

Harrogate 69212—P.W.B. King 11 Tewit Well Road

Dusseldorf, Germany

Huttenstrasse 17 Max F. Holsinger; G. W. Rohde; E. Hillerbrand; Herbert Haibt

Tokyo, Japan

Sun Gain Shia, Ltd. Shiba Nikkats Bldg. 13, Shiba Park, Minato-Ku C. H. Yiu, Managing Director

Editorial and Executive Offices: 30 Church St., New York 10007, N. Y.

Railway Age, established in 1856, is indexed by the Business Periodicals Index, the Engineering Index Service and the Public Affairs Information Service. Name registered in U. S. Patent Office

and Trade Mark Office in Canada. Published weekly, except the last week of December, by the Simmons-Boardman Publishing Corporation at 440 Boston Post Road, Orange, Conn.

AUTHORS

Allen, Wendell C., Sept 30 p 50 Almquist, L., July 1 p 26 Andrews, A. L., July 15 p 36 Armand, Louis, Nov 4 p 17 Arpala, A. F., Oct 28 p 58 Aydelott, G. B., Sept 30 p 68

Baine, John C., Oct 21 p 25, p 28
Banner, Paul H., Sept 16 p 40
Barnes, Henry A., Aug 12 p 40
Beard, Charles, July 29 p 40
Bevan, David C., Dec 2 p 23
Biaggini, B. F., Sept 30 p 63; Oct 21 p 10
Boissi, James O., Nov 11 p 14
Budd, John M., Dec 9 p 52; Dec 23/30 p 13, p 17

Combes. C. L., Oct 7/14 p 52 Courter, Thomas B., Sept 9 p 39 Crump, N. R., Sept 9 p 40 Curran, Charles D., July 29 p 71 Curry, Field, Aug 5 p 20

Daley, Richard J., Oct 21 p 25 Dennis, C. L., Sept 9 p 13 Dick, Merwin H., Oct 7,14 p 87 Donlon, Edward F., July 1 p 18; Aug 5 p 17; Sept 2 p 19

Erlandson, Carl R., Oct 7/14 p 82 Evans, Paul L., Aug 19 p 31

Fesmire, N. W., Oct 7/14 p 161 Fitzpatrick, C. J., July 8 p 36 Flaherty, William C., Aug 26 p 74 Forgash, Morris, July 29 p 31; Nov 25 p 46 Foulks, E. E., Sept 30 p 9 Frank, George C., Aug 26 p 74 Franpe, John D., Oct 21 p 17 Freas, Howard G., Nov 4 p 13 Frederick, John H., July 15 p 40

Garrett, H. B., Oct 21 p 16 Garrison, William B., Dec 2 p 25 Gaul, David Q., Oct 21 p 28; Nov 18 p 40 Gellman, Aaron J., July 15 p 33

Glikbarg, A. S., Oct 28 p 13 Goodfellow, T. M., Aug 12 p 40 Gordon, Donald, Dec 16 p 45 Green, Edward J., July 29 p 24

Hammond, Harold F., Sept 30 p 76
Hawthorne, J. W., Sept 30 p 10; Oct 7/14 p 122
Hays, Joseph H., Nov 11 p 39
Heilman, Richard H., Sept 30 p 15
Herd, John J., July 1 p 26
Hoffman, Wayne, July 2 p 26
Hoffman, Wayne, July 29 p 24
Hoppe, Charles W., Oct 7/14 p 194
Houser, Fred N., Jr., Oct 7/14 p 47
Hudson, Gardner C., Dec 2 p 17
Hudson, Gardner C., Dec 1 p 17
Hutchinson, W. W., Dec 16 p 47

James, Robb W., Dec 2 p 36

Keller, W. M., Oct 21 p 16 Knudson, James K., Oct 28 p 55 Kohl, John C., Dec 2 p 36

Langdon, Jervis, Jr., Nov 18 p 19
Lawson, Kenneth, Nov 4 p 18
Leonard, Oble, Sept 2 p 22
Lewis, Robert G., July 29 p 70
Lloyd, J H., Oct 21 p 10
Loomis, Daniel P., July 1 p 29 Oct 21 p 18
Lyne, Henry, Jr., Sept 9 p 30
Lyne, James G. (See Railroading After Hours)

Martin, Clarence D., Jr., July 1 p 39

McCarter, Walter J., July 15 p 29

McCarthy, James R., Oct 21 p 25

McKanthy, Kobert W., Oct 7/14 p 107

McMichael, John C., Dec 16 p 34

McNally, Harry J., Oct 21 p 13

Menk, L. W., Sept 30 p 69; Nov 11 p 40; Dec 2 p 36

Miller, William G., Sept 9 p 35

Miller, William G., Sept 9 p 35

Mitros, John, Oct 28 p 13

Morris, I. Sewell, Sept 30 p 76

Morse, Wayne, Aug 26 p 70

Nash, John F., Dec 9 p 56 Noller, Walter E., Oct 21 p 17

Olson, Ogden D., July 15 p 36 Osman, J. R., Oct 28 p 47

Perlman, A. E., Oct 21 p 14

Robinson, Paul F., Aug 19 p 31 Roddewig, Clair M., July 8 p 36; Nov 18 p 40 Rosenson, Leon M., Nov 25 p 80

Saunders, Stuart T., Nov 25 p 104; Dec 16 p 22 Saunders, W. B., Nov 4 p 15 Scott, L. H., Jr., Dec 16 p 47 Sims, H. M., Aug 19 p 31 Stampfle, R. B., Dec 2 p 11 Steinback, E. W., Aug 5 p 20 Stoutenburgh, C. H., Nov 25 p 68 Swan, Robert J., July 15 p 36

Taylor, Joe, Oct 28 p 48 Tuite, William V., Oct 7/14 p 127

Van Der Sluys, William, Oct 7/14 p 161 Vickrey, William, July 1 p 22

Walters, Charles, Nov 25 p 68
Walters, Charles, Nov 25 p 68
Weeks, R. D., Aug 5 p 20
Weller, John L., Aug 19 p 31
Welty, Gus, Oct 28 p 13, p 19; Nov 4 p 15; Dec 23/30
p 13
Wheeler, W. C., Oct 7/14 p 161
White, W. G., Oct 7/14 p 160
White, William, Sepl p 38; Dec 9 p 56
Whitman, F. B., Oct 7/14 p 82
Whitten, Herbert O., Nov 4 p 14
Williams, Harter W., July 8 p 18
Wirtz, Willard, Aug 5 p 40

Yamada, Akiyoshi, Aug 5 p 40 Young, W. L., Oct 21 p 13

GENERAL INDEX

*Illustrated; †Editorial; Letters from Readers

A

ACF Industries, Inc.:
Aluminum Center Flow Hopper Cars, Aug 19 p 11*
Center Flow HC Series Cars, Oct 28 p 38*; Dec
23/30 p 7
Electrically-Heated Tank Cars, Sept 16 p 33*
Functions of ACF and Shippers' Car Line Divisions
Realigned, Oct 28 p 7
Gravity Gate, July 22 p 30*
High-Cube Auto-Parts Car Tested, July 8 p 34*
Pneumatic Outlet, July 15 p 37*
Sales and Earnings Up, Dec 2 p 36
Absorbent, All-Purpose, for Winter Emergencies;
Wyandotte Chem. Corp., Nov 18 p 33
Accident Prevention:
Air Brake Safety Control, Nov 4 p 38*
Electronic Eye on the Throttle, Dec 9 p 39*
Success of Programs Makes Safety Difficult to
Preach, Nov 11 p 39
Accident Statistics, July 29 p 72; Aug 19 p 40
Ace-Sycamore, Inc.: Fume Exhauster, July 22 p 29*
Additive, Diesel Fuel; Vitasul Ind., Dec 2 p 30
Adhesive, Shipping Bag; Chase Bag Co., Dec 23/30
p 34
Advanced Concepts, Inc.: Battery Pads, July 1 p 33*
Advertising:
C&O Moves Louisville Station, Makes Money, July

p 34
Advanced Concepts, Inc.: Battery Pads, July 1 p 33*
Advanced Concepts, Inc.: Battery Pads, July 1 p 33*
Advanced Concepts, Inc.: Battery Pads, July 1 p 30*
CeO Moves Louisville Station, Makes Money, July 15 p 29*
CTA Tickets to Carry Ads, Aug 19 p 30
Aeroquip Webbing Fittings, July 29 p 66*
Agricultural Development, RRs That Put Emphasis on, Sept 23 p 23
Agricultural Exemptions for Motor Carriers (See Minimum Rates Legislation)
AIR Brake Safety Control; Westinghouse Air Brake
Co., Nov 4 p 38*
AIR Brake Test Rack, WABCO Automated, July 8 p 16*
AIR Brake Test Rack, WABCO Automated, July 8 p 17*
AIR Bulkhead Car Corp.: Pneumatic Bulkhead, Dec 23/30 p 34*
AIR Driver, Ingersoll-Rand, Oct 21 p 34*
AIR Driver, Ingersoll-Rand, Oct 21 p 34*
AIR Drivers Cut Costs on N&W, Aug 19 p 28*
AIR Freight Technological Developments, July 22 p 30
AIR Ingits:
Boom Picks Up Speed, Nov 11 p 14*; Nov 25 p 681
Increasing Land Use, Oct 21 p 13
Survey of RRs Interested in, Sept 23 p 24
Airco Co. International: Wire Feeder, July 15 p 37*

Airlines, Domestic Trunkline, Bill to Deny Subsidies to, July 29 p 72.
Airports, Federal Aid to, Aug 26 p 7
Airports, Federal Aid to, Aug 26 p 7
Airports, Federal Aid to, Aug 26 p 7
Aiax-Consolidated Hydraulic Draft Gear, Dec 16 p 42
Alaska, Hydro-Train Barge Service to, July 29 p 71;
Sept 23 p 52
Alco Products, inc.:
Century 628, 2750-Hp. Locomotive, Aug 26 p 50*
LeHR Gets Century 420 Locomotives, July 22 p 13*
Optimistic Over Foreign Sales, Sept 9 p 35
To Enlarge Offices at Schenectady, July 8 p 36
Alcoa Mineras of Jamaica: Aluminum Bauxite Cars,
Aug 5 p 30*
Alertness Control for Locomotives Tested on IC, Dec
9 p 38*
Alger-Sullivan Car Decking, Dec 9 p 50*
Alpha-Molykote Bonded Lubricant, July 22 p 30
Aluminum Bauxite Cars for Jamaica, Aug 5 p 30*
Aluminum Center Flow and Tank-Hopper Cars, Aug 19
p 11*
Aluminum Hand Truck, Aug 12 p 33
Aluminum Trailers, Increase in, Aug 26 p 23
Aluminum Trailers, Increase in, Aug 26 p 23
Aluminum Wire Feeder, July 15 p 37*
American Association of State Highway Officials: Ottawa Control Carlon C

Licensed to Market SAFEGE Monorail System in U. S., July 29 p 68; Aug 5 TO Build World's Fair Monorail, July 29 p 68; Aug 5 p 17*; Sept 9 p 35
American Railway Bridge & Building Association: Meeting at ARPE, Oct 21 p 10
American Railway Engineering Association: Meeting at ARPE, Oct 21 p 10
American Railway Magazine Editors' Association: Annual Meeting, Sept 30 p 74
Loss and Damage Slogan Winner, Sept 30 p 74
American Railway Progress Exposition:
Another Show May be Held in 1967, Dec 16 p 7
Automation Steps Ahead, Oct 7/14 p 107*
Big Trains, Big Diesels, Oct 7/14 p 52*
Commuter Equipment is Big News, Oct 7/14 p 56*
Exhibit Layout, Oct 7/14 p 19*

American Railway Progress Exposition: (Continued)
Foreign Visitors to See, Oct 7/14 p 166
'Hardware' Unlimited, Oct 7/14 p 102
List of Exhibitors, Oct 7/14 p 19 19*
New Freight Cars Score Five Ways, Oct 7/14 p 47*
Officers, Oct 7/14 p 10
Program for, Oct 7/14 p 10
Program for, Oct 7/14 p 10
Program for, Oct 7/14 p 187*
Railway Age to Publish Dailles, July 29 p 70*
Report on the, Oct 21 p 9*
Revolution in M/W, Oct 7/14 p 87*
Showtime at Chicago, Oct 7/14 p 87*
Showtime at Chicago, Oct 7/14 p 23*
Top RR Men to Meet During, July 15 p 34
Track Exhibit Layout, Oct 7/14 p 23*
Winners of 'Hot Box Derby', Nov 18 p 40
American Society of Mechanical Engineers: Effect of Heavy Freight Cars on Rail and Wheel Life, Dec 2 p 11
American Society of Traffic and Transportation Annual Meeting, July 29 p 72
American Steel Foundries:
Four-Wheel Ridemaster Truck, Oct 21 p 33*
Six-Wheel Ride Control Truck, Sept 30 p 27*
American Telephone & Telegraph Co.:
Automatic Dialers, Nov 18 p 34
American Transit Association Annual Meeting, Oct 7/14 p 161; Oct 21 p 24
Ames Iron Works: Steam Generators, Sept 23 p 46*
Angle Cock; Sloan Valve Co., Nov 4 p 37*
Ann Arbor:
Chubb, J. E., Elected President, Oct 28 p 52
Sold to DT&I, Sept 9 p 7
Annual Report Awards; Financial World, July 29 p 71;
Oct 7/14 p 200; Oct 28 p 7
Arbitration Agreement Signed by BRC and Pan American, July 22 p 36; Sept 9 p 16
Arkansas & Louisiana Missouri: J. W. Keller Elected President, Nov 18 p 27
Armstrong Cork Co.: Cushioning Material, Oct 28
p 50°; Vinyl Tlle, Nov 18 p 33*
Army (See United States Department of the Army)
Association of American Railroads:
Automatic Car Identification Surveys, Oct 21 p 16;
Nov 4 p 7
Bureau of American Railroads:
Automatic Car Identification Surveys, Oct 21 p 16;
Nov 4 p 7
Bureau of American Railroads:
Automatic Car Identification Surveys, Oct 21 p 16;
Nov 4 p 7
Bureau of American Railroads:
Automatic Car Identification Surveys, Oct 21 p 16;
Nov 4 p 7
Bureau of American Railroads:
Automatic Car Identification Surveys, Oct 21 p 16;
Nov 4 p 7

Association of American Railroads: (Continued)

ussociation of American Railroads: (Continued)
Communications and Signal Section Meeting at
ARPE, Oct 21 p 10, p 16*
Compromise with RLEA on Amendments to Railroad
Retirement and Unemployment insurance Acts,
July 29 p 71; Aug 19 p 10; Aug 26 p 10; Oct 21 p 7
Cybernetics and Automation Division Under Consideration, Dec 2 p 7
Demurrage Rule Changes Opposed by Shippers, Sept
16 p 36
Equal Treatment in Reporting Requirements for
Freight Commodity Statistics, ICC to Reappraise,
Oct 21 p 24
Mechanical Division:
Car Design Criteria Studied, July 1 p 36: Oct 21

Car Design Criteria Studied, July 1 p 38; Oct 21 p 16

Daigrams for Large Capacity Cars Approved,
Sept 30 p 74; Nov 18 p 37
Hotbox Statistics, July 1 p 40; Aug 12 p 40; Sept
30 p 76
Journal Lubricator Specification Changes Approved, Sept 30 p 74; Nov 18 p 37
Journal Lubricators, Approval Withdrawn from,
Dec 23/30 p 40
Limited Business Meeting, July 1 p 38
Meeting at ARPE, Oct 21 p 14*
New General Committee Members, Dec 23/30 p 40
Per Diem System, New, Effective Jan 1, 1964; Nov 4
p 10

Meeting at ARPE, Oct 21 p 14*
New General Committee Members, Dec 23/30 p 40
Per Diem System, New, Effective Jan 1, 1964; Nov 4 p 10
Price Index: July, Aug 26 p 10; October, Dec 16 p 10
Price Index: July, Aug 26 p 10; October, Dec 16 p 10
Purchases and Stores Division: Annual Meeting,
Oct 7/14 p 127; Oct 21 p 17
Research Center a Profitable Investment, Oct 7/14 p 162
Treasury Div. Annual Meeting, Sept 30 p 68
Alchison, Topeka & Santa Fe:
Atomic Explosives; Potential Uses on Construction
Projects Studied, Aug 19 p 40
Cars, Covered Hopper; Large Order, Sept 23 p 5
Cars, Mechanical Refrigerator, with Insulating
Panels, July 1 p 13*
Control of WP Recommended by ICC Examiner,
Sept 16 p 9; Nov 4 p 10; Nov 25 p 67; Dec 23/30
p 40
Microwave System Ordered from RCA, Aug 19 p 35
Outlook for 1963, July 22 p 23
Potato Shipment Delays Investigated, Sept 2 p 10
Purchase of Oklahoma City-Ada-Atoka Recommended by ICC Examiner, Nov 11 p 11
To Cut Fares 20%, Nov 25 p 10
Track Surfacing "Package" Tested, Sept 2 p 35
Vending Machines in Lounge Car, July 15 p 28*
Welded-Track Joints are "Glued", Dec 9 p 19*
Atlantic Coast Line:
Air Brake Shop at Waycross, July 8 p 16*
All-Piggyback Trains, Sept 16 p 7; Nov 18 p 40
Car, 135-Ton Covered Hopper, Dec 23/30 p 31*
Cement Train at Castle Hayne, Sept 23 p 37*
Computer Center to be Installed, Dec 2 p 15; Correction, Dec 16 p 47!
Economics of Car Repairs, Oct 7/14 p 122
First GP-35 Locomotive Delivered to, Nov 11 p 40;
Nov 18 p 40*
Meal Coupons Sold by, Nov 25 p 104
Merger with SAL Approved, July 29 p 46; Dec 23/30 p 24
Outlook for 1963, July 22 p 23
Profit in LCL Plan, Oct 28 p 45*
Station Facilities, A New Look in, Aug 12 p 20*
Atomated Trains:
Attitude of Labor Toward, Aug 5 p 19
Aydelott, G. B., on, Sept 30 p 68
Concepts and Hardware, Survey of, Aug 5 p 18*
Reasons for One-Man Crews, July 1 p 26
Automatic Electron Monitor Recorder, Sept 9 p 33*
Automatic Lift Trucks: Lift Truck Control, July 29
p 65*
Automatic Electron Monitor Recorder, Sept 9 p 35*
Automatic City I War Centennial; L&N, J

Automation (See Electronic)

Awards:
Civil War Centennial; L&N, July 8 p 36

Financial World Annual Report, July 29 p 71; Oct
7/14 p 200; Oct 28 pt 16 p 40

NSC Safety Activities, Aug 26 p 74

NSC Safety, Aug 19 p 40

RPI Golden Freight Car: Southern Ry., Oct 21 p 18

Travel Promotion; CB&Q, Nov 18 p 40

"Who's Who in South and Southwest" Cites W. T.

Rice, Sept 9 p 40

Axles, Effect of Heavy Cars on, Dec 2 p 11

Baltimore & Ohio:
Clarksburg-Parkersburg Clearance Program Completed, Nov 11 p 12*
Clearances Raised for TOFC, Nov 11 p 12*
Control by C&O Upheld by Courts, Aug 19 p 10; Dec 16 p 7

Expects Profits to Double in 1964, Nov 25 p 7

Grove, Taylet Farse Reduced, July 1, 10

Expects Profits to Double in 1964, Nov 25 p 7 Group-Travel Fares Reduced, July 1 p 40 Integral Coal Train Operation, Nov 4 p 42 Locust Point Marine Terminal Partially Leased, July 15 p 44 Plant Marketing Technique Pays Off, July 8 p 30 TOFC Traffic Booming, Nov 4 p 7 Wheel Checkers on Main Track, Dec 16 p 23* Baltimore Urged to Devise Over-All Transportation Plan, Dec 2 p 23 Bananas go TOFC, Guatemala to U. S., Nov 11 p 38; Nov 25 p 63*

Nov 25 p 63**
Bangor & Aroostook:
Annual Report Wins Award, July 29 p 71
Fourth Acquisition of, Aug 19 p 40
Barges, Hydro-Train; Puget Sound-Alaska Van Lines,
July 29 p 71; Sept 23 p 52

Barrier Material; Franklin Container Corp., Oct 28 p. 50*
Basket on Bantam Rail-Roader Provides Platform for Men Trimming Tunnel Roof, July 29 p. 50*
Battelle Memorial Institute: Rate Research for Dept. of Commerce, Aug 12 p. 10; Sept 9 p. 12
Battery, Gould-National Industrial, Dec 16 p. 42
Battery Pads; Advanced Concepts, July 1 p. 33*
Bearings (See Journal, Roller, etc.)
Belt Railway of Chicago: Strike by BRC Barred, Aug 5 p. 40

5 p 40

Bessemer & Lake Erie:
Coordinated Rail-Truck TOFC Service, Aug 26

Coordinated Rail-Truck TOFC Service, Aug 26 p 74
Harriman Safety Award, Sept 16 p 40
NSC Safety Award, Aug 19 p 40
Bethlehem Steel Co.:
MP 100-Ton Hopper Cars, Aug 12 p 25*
Piggyback Cars for Wide Trailers, Aug 5 p 7
Piggyback Cars for Wide Trailers, Aug 5 p 7
Pills of Lading; New Form Used by Kaiser Aluminum & Chemical Corp., Sept 30 p 76
Binkley Landing Gear, Sept 23 p 46*
Binkley Trailer Landing Gear, Sept 23 p 46*
Binkley Trailer Landing Gear, Sept 23 p 46*
Binks Mg. Co.: Mixer Gun, Sept 2 p 30*: Fluid Regulator, Dec 9 p 49; Metering Pump Unit, Dec 9 p 50*
Birdsboro Corp.: Orders Increase, Nov 25 p 104
Boardmaster; Graphic Systems, Inc., Aug 5 p 22
Boiler Plants, Trailer-Mounted, Tested, Nov 11 p 40
Boltmaster Speeds E-L Track Work, July 22 p 27*
Booz, Allen & Hamilton Export Market Survey, July 8 p 31
Boston & Maine:
Boston Properties Sold, July 22 p 36

Boston & Maine:
Boston Properties Sold, July 22 p 36
Federal Mass Transport Experiment, July 29 p 71;
Sept 2 p 36
Loan Guaranteed by Government, Aug 5 p 7
Officials Indicted in Sale of Cars, Aug 19 p 30;
Dec 9 p 56
Boston-Washington, D. C. Transport Facilities, Dept.
of Commerce Assigns Study of, Aug 12 p 10; Oct
7/14 p 200
Brake, Package, for Freight Car Trucks; American
Brake Shoe Co., Oct 21 p 34*
Brake Shoe Co., Oct 21 p 34*
Brake Shoes, Composition and Metal; Tests Conducted by Westinghouse and PRR, Aug 26 p 31*
dicted by Westinghouse and PRR, Aug 26 p 31*
British Railways: Unit-Train Operations Planned, Oct
28 p 7

Brice Hayes Bumping -Post Head, Sept 9 p 34*
British Railways: Unit-Train Operations Planned, Oct 28 p 7
Broom, Pyke Switch, Sept 16 p 34*
Brotherhood of Locomotive Engineers:
BLF&E Advocates Merger with, July 15 p 7
"Locomotive Engineer" Now a Weekly, Dec 9 p 56
Pact with Union RR Calls for Elimination of Firemen, Dec 23/30 p 25
Wage and Benefit Demands, Nov 18 p 39
Brotherhood of Locomotive Firemen & Enginemen:
Advocates Merger with BLE, July 15 p 7
Officers Elected, July 29 p 71
Southern Rev. Upheld in Hiring of Aged Firemen, Aug.
5 p 40; Aug 19 p 40; Nov 11 p 7
Wage and Benefit Demands, Dec 9 p 42
Brotherhood of Railroad Signalmen: Wage-Rules Dispute, Aug 19 p 7
Brotherhood of Railroad Trainmen:
May Test Constitutionality of Compulsory Arbitration Law, Nov 25 p 9*
Supreme Court Refuses to Review Strike Insurance Pact, Oct 21 p 7
Brotherhood of Railway Clerks:
Abritration Agreement with Pan American, July 22 p 36: Sept 9 p 16

Brotherhood of Railway Clerks:
Abritration Agreement with Pan American, July 22
p 36; Sept 9 p 16
Interview with C. L. Dennis, Sept 9 p 13*, 42†
Strike Against Belt Ry, and C&WI Barred, Aug 5 p 40
Brotherhood of Sleeping Car Porters: Settlement of
Wage Dispute, Nov 11 p 34; Dec 23/30 p 40
Brotherhood of Sleeping Car Porters: Settlement of
Wage Dispute, Nov 11 p 34; Dec 23/30 p 40
Buckeye Pipe Line:
GATC Abandons Plans to Acquire, Oct 28 p 56; Dec 2 p 7

2 p 7
PRR Acquires Some Stock, Dec 9 p 10
Budd Co.:
Car Designs Submitted to PATH, July 1 p 21*
Wins NYCTA Car Order, July 1 p 25; Sept 9 p 40;
Dec 23/30 p 40
Bulk Commodities Exemptions (See Minimum Rates

Bulk Commodities Exemptions (See Minimum Rates Legislation)
Bulk Commodities Handling:
ACF Center Flow Hopper Cars, Aug 19 p 11°; Oct
28 p 38°; Dec 23',30 p 7
Delivery Bin Kit, Nov 18 p 33
Pneumatic Unloading Device; North American Car
Corp., Sept 9 p 33°
Union Tank Pressurized Dry Bulk Car, July 8 p 21°
Union Tank Pressurized Dry Bulk Car, July 8 p 21°
Bulkhead, Pneumatic; Air Bulkhead Car Corp., Dec
23',30 p 34°
Bumping-Post Head, Brice Hayes, Sept 9 p 34°

Cab Signals, Radio Control of; L&N, July 29 p 41
Cable, MM&M Flat, Accessories for, Sept 16 p 34*
Caboose Cars, Variations in Names for, July 8 p 27
Cady Metal Fabricating, Inc.: Pallet Lifter, Nov 25 p 97
Calendar of RR Association Meetings, July 29 p 61
Callaway Mills, Inc.: Journal Stop, July 1 p 34*
Camera, TV; North American Phillips, Aug 19 p 34*
Camera, Edmonton Rail Transit Proposal, Dec 2 p 24

anada:
Edmonton Rail Transit Proposal, Dec 2 p 24
Freight Car Loadings, July 1 p 35; July 8 p 31; July 15 p 39; July 22 p 31; July 29 p 67; Aug 5 p 35;
Aug 12 p 35; Aug 19 p 35; Sept 2 p 31; Sept 16 p 35; Sept 23 p 47; Sept 30 p 71; Oct 7/14 p 183; Oct 21 p 35; Oct 22 p 35; Oct 26 p 51; Nov 4 p 39; Nov 11 p 35; Nov 25 p 99; Dec 2 p 31; Dec 9 p 51; Dec 16 p 43; Dec 23/30 p 35;
Report of Royal Commission on Transportation,
Legislation to Implement, Dec 16 p 48
Wheat Shipment to Russia, Oct 7/14 p 183
anadian National:

Wheat Shipmen to Russia, Oct 1/14 p 103 Canadian National: Car Conversion Program, July 1 p 40; Oct 28 p 56 Car-Go-Rail Charges Reduced, Nov 11 p 40

Canadian National: (Continued)

anadian National: (Continued)
Car Reporting Plan Extended, Oct 28 p 56
Cars, Aluminum Tank-Hopper, Aug 19 p 11*
Cars with Removable Wooden Roofs to Handle
Grain, Oct 28 p 56
Charge-a-Trip Plan, Nov 11 p 40
Coach Reservation Plan, July 15 p 44
Fares, Red, White and Blue, Extended, Sept 23 p 9*
Grain Movements, Heavy, Dec 2 p 36
Great Slave Lake Line, Oct 7/14 p 183
Language Courses for Employees, Dec 2 p 36
Matagami Branch Opened, Nov 4 p 44
Mobile Power Units at Microwave Stations, July 8 p 20

Matagami Fanch Opened, Nov 4 p 44, Mobile Power Units at Microwave Stations, July 8 p 20 Office Building at Edmonton, Sept 2 p 36 Opposes Richelieu-Champlain Waterway, Oct 21 p 40 Ready to Negotiate on Transit Lines, July 1 p 18 Research Center Planned, July 25 p 46 Role in Canadian Transportation, Dec 16 p 45 Track Improvement Program; Prince Rupert-Jasper, July 29 p 72 Canadian Pacific:

Branch Line Abandonments Studied, Dec 2 p 36 Cars, Aluminum Tank-Hopper, Aug 19 p 11* Enters Motel Business, Sept 5 p 40 May Relocate Regina Station, Sept 2 p 36 Opposes Richelieu-Champlain Waterway, Oct 21 p 40 Withdraws from Hotel Vancouver, July 15 p 44 Canadian Pacific Air Lines Merger with Trans-Canada Air Lines Would Serve No Useful Purpose, Sept 9 p 40 Candy Rates, Water-Competitive, Upheld by ICC, Nov 11 p 10 Canton Containers, Inc.: Fabric to Protect Salt, Dec 23/30 p 34*

11 p 10
Canton Containers, Inc.: Fabric to Protect Salt, Dec
23/30 p 34*
Cape Canaveral, FEC Builds Line to, July 1 p 40
Capital Expenditures:
Estimate for 1963, Dec 23/30 p 9
Estimates for 1964, Oct 21 p 17; Nov 18 p 15; Dec 16

Capital Expenditures:
Estimate for 1964, Oct 21 p 17; Nov 18 p 15; Dec 16 p 7
Flash Report for 1964, Nov 18 p 15
Microwave Outlook, Nov 11 p 19
Car Builders, Contract, Getting Bigger Slice of Business, July 1 p 10
Car Builders, Contract, Getting Bigger Slice of Business, July 1 p 10
Car Builders Seek Transit Companies' Aid in Testing Cars, Oct 7/14 p 161
Car Cleaning Unit; J. S. Miller RR Sales, Dec 9 p 50°
Car Identification, Automatic:
AAR Surveys of, Oct 21 p 16: Nov 4 p 7
Avdelott, G. B., on, Sept 30 p 68
How Will Railroads Vote on?, Nov 18 p 11
Magnetic Recording of Data on Car Wheels Experimented with, Oct 7/14 p 199
Car-Rebuilding Business, RRs Should Get Out of, Oct 7/14 p 199
Car-Reporting Systems:
AC 10: 10 p 12 Center, Dec 2 p 15; Correction, Dec 16 p 17
Car Reporting Systems:
AC 10: 10 p 17
Car Reporting Systems:
AC 10 p 17
Car Report

Auto-Parts for Ford, July 8 p 34* (ACF); Aug 19 p 14* (Greenville and Thrall) Evans Products Co. 'Perfect' Cars Pay Off, Dec 2 p 12*

p 12*
Gypsum Assn. Surveys Requirements, Dec 9 p:
Hydroframe-60 Cars, ICC Report on, Nov 25 p
Replacement of 300,000 Cars with Trailers and
Containers Predicted, Aug 26 p 20
Coll; Evans Prod. Co., Nov 25 p 98*
Design:

Coll; Evans Prod. Co., Nov so p so Design: Criteria Studied by AAR Mech. Div., July 1 p 38; Oct 21 p 16 Factor in Utilization, Sept 30 p 10 Marketing Dept.'s Part in, July 29 p 21 Shippers' Views on, Sept 30 p 47 Diagrams for High Capacity Cars Approved by AAR Mech. Div., Sept 30 p 74; Nov 18 p 37

Cars, Freight; (Continued)

Bethlehem Steel to Build Cars for Wider Trailers.

Bethlehem Steel to Build Cars for Wider Trailers, Aug 5 p 7 etc. Flat. Sept 30 p 58*. GATC Delivers 900 Piggyback-Container Cars in 1963, Dec 23/30 p 24* Gypsum Assn. Surveys Requirements, Dec 9 p 54 L&N Bulkhead Cars, Nov 25 p 76* Piggyback, Number in Service, Aug 26 p 20 Three-Way Piggyback, Aug 26 p 7 Flat-Gondola Car Developed by A. O. Smith Corp., Sept 30 p 18* Gondola: Alcoa Mineras of Jamaica, Aug 5 p 30* Heavy; Effect on Rail and Wheels, Dec 2 p 11 Hopper:

Hopper: ACF Center Flow HC, Oct 28 p 38*; Dec 23/30 p 7 Aluminum Center Flow and Tank-Hopper, Aug 19

ACL 135-Ton Covered, Dec 23/30 p 31*
ACL 135-Ton Covered, Dec 23/30 p 31*
ACL 135-Ton Covered, Dec 23/30 p 31*
Grain and Feed Dealers' Poll on, Aug 12 p 40
L&N Integral Train, Use 5 Steels, Nov 4 p 32*
L&N 7000-Cu. Ft. Wood-Chip, Oct 28 p 24*
MP 100-Ton, for Iron-Ore Traffic, Aug 12 p 25*
N&W 150-Ton, Nov 25 p 66*: Dec 16 p 32*
Removable Wooden Roofs; CN, Oct 28 p 56
Log Cars; N&W, Oct 7/14 p 200
Marketability and Utility Characterize New Types,
Oct 7/14 p 47*
Piggyback (See Flat)
Refrigerator, Mechanical; AT&SF Uses Insulated
Panels, July 1 p 13*
Roller-Bearing Equipped, Number of, July 1 p 38
Service Life of 15 Years; No Rebuilding, Sept 30 p 10
Specialized, Revolution in, Sept 30 p 59
Specialized, Revolution in, Sept 30 p 59
Specialized, Whitehead & Kales Builds, Aug 19 p 32
Tank:

Specialized, Whitehead & Kales Bules, 1987.

Tank:
Electrically-Heated; Shippers' Car Line, Sept 16 p 33*
Jumbo, Union Carbide's Views on, July 29 p 40
Union Tank Dry Bulk Car, July 8 p 21*
Union Tank Fruit Juice Car, July 8 p 21*
Union Tank to Build 38,500-Gal. Cars, Sept 9 p 7

ars. Passenger:

Union Tank to Build 30,000-GHz Cats, Jassenger:
Age Distribution, Jan 1, 1962, Sept 9 p 32
Commuter Cars are Big News, Oct 7/14 p 56*
Long Island High-Speed m-u, Aug 5 p 13*
Meal-A-Mat; NYC, Sept 23 p 52
Rapid Transit:
Builders Want More Tests of, Oct 7/14 p 161

Builders Want More Tests of, Oct 7/14 p 161
CTA Orders Air-Conditioned Cars, July 1 p 20*;
Plastic End Panels, Aug 5 p 16*; Oct 21 p 21
Designs Aimed at Passenger Confort, Oct 7/14
p 161; Oct 21 p 26; Nov 169 p 16*;
Oct 21 p 28; Nov 169 p 16*;
Oct 21 p 28; Nov 169 p 16*;
Oct 21 p 28; Nov 169 p 16*;
Oct 21 p 20*;
Bidders
Asked to Amend, Sept 2 p 19; Nov 18 p 16
Japan Looks at U. S. Market, July 2 p 72
Subway; Budd Wins NYCTA Order, July 1 p 26; Sept
By 40; Dec 70;
Oct 20; Nov 16*;
Oct 21 p 21*
Vendo-Lounge; AT&SF, July 15 p 26*
Cars, Welded-Rall Rack; GN, July 15 p 14*
Cement, Healer; Thermon Mg. Co., Nov 4 p 37*
Central Of Georgia. RLEA Seeks Court Denial of
Southern Acquisition, July 22 p 7
Central Georgia. RLEA Seeks Court Denial of
Southern Acquisition, July 22 p 7
Central Careminal at Elizabethort, Aug 12 p 40
Tral Terminal at Elizabethort, Aug 12 p 40
Tral Leavenot:

Trailers Leased from REA Leasing Corp., Nov 18 p 40
Central Vermont:
Radio Control of Crossing Gates, Sept 30 p 32*
Trainshed at St. Albans Razed, Nov 11 p 40
Centralized Traffic Control: Automation Steps
Ahead, Oct 7/14 p 107*
Chase Bag Co.: Shipping Bag Adhesive, Dec 23/30 p 34
Check Handling Under Magnetic Ink-Recognition Systems, Sept 30 p 58
Chemetron Corp. Welded-Rail Transport Equipment,
July 15 p 14*
Chesapeake & Ohio:
"Breakthrough in Transportation" Film, Oct 7/14
p 200
Control of B&O Upheld by Courts, Aug 19 p 10; Dec

p 200 ontrol of B&O Upheld by Courts, Aug 19 p 10; Dec 16 p 7

p 200
Control of B&O Upheld by Courts, Aug 19 p 10; Dec 16 p 7
Locomotive Given to Newport News, Sept 9 p 40
Moves Louisville Station, Makes Money, July 15 p 29*
Roadrailers Ordered by, July 1 p 35
Toledo Waterfront Land May be Sold, Nov 18 p 40
Chicago: First "L' Car in Storage, Aug 12 p 40
Chicago & Eastern Illinois:
Coal Rate Cases, Joint Rail-Water, July 29 p 69;
Dec 9 p 40
Control by MP Recommended by ICC Examiner,
Oct 7,14 p 190
Grain Handling at Joppa, Oct 28 p 56
ICC Clears Joint Rail-Water Rates on Ex-Rail
Grain Moving Over the Great Lakes from Chicago
to Buffalo, July 8 p 35
Chicago & North Western:
Financial Position Improved, July 29 p 69
"400" Trains Discontinued, July 29 p 72
Interest Payment on Bonds, Sept 16 p 40
Lithcote Corp. Buys Roundhouse, Nov 18 p 22*
Merger Talks with CMSTP&P Revived, July 1 p 9*
Microwave Installation, Nov 11 p 20*
Proviso Piggyback Plaza, Sept 23 p 52; Dec 23/30
p 18*
Seeks Control of CRi&P, July 1 p 9*, July 15 p 44:
Aug 5 p 30; Aug 12 p 7; Sept 2 p 36; Sept 23 p 52;
Nov 25 p 87; Dec 16 p 7
Supreme Court Refuses to Review ICC Labor Policy
in M&SL Merger Case, Oct 21 p 40
Tax Rebate from Lake County, Ill., July 22 p 36
Strike by BRC Barred, Aug 5 p 40
Chicago, Aurora & Elgin: Proposal to Build Highway
on Right-of-Way Turned Down, Sept 9 p 40

Chicago, Burlington & Quincy:
Chicago Ticket Office Modernized, Nov 18 p 16*
Fast Long-Distance Freight Run, Oct 21 p 40
Guaranteed Arrival Times for Perishables, Sept 16
p 40

Guaranteed Arrival Times for Perishables, Sept 16 p 40 Industrial Development on, Sept 23 p 26* Outlook for 1963, July 22 p 23 p 29* Dush-Pull Commuter Trains, Dec 23/30 p 7 Travel Promotion Award, Nov 18 p 40 Chicago Great Western Merger Study with Soo Line Called Off, Nov 18 p 7 Chicago, Milwaukee, St. Paul & Pacific: C&NW to Revive Merger Talks, July 1 p 9 Cruise on Mississippi River Offered, Aug 12 p 40 To Seek Commuter Fare Increase, Dec 16 p 48 Train-Bus Service Attracts Riders, Aug 12 p 30 'YKL Special' Fast Freight Train, Nov 25 p 13* Chicago North Shore & Milwaukee; CTA to Buy Strip for Stutte Service to Skokie, Aug 26 p 74; Oct 28 p 44; Nov 4 p 18 Chicago, Rock Island & Pacific: C&NW Seeks Control of, July 1 p 9; July 15 p 44; Aug 5 p 30; Aug 12 p 7; Sept 2 p 36; Sept 23 p 52; Nov 25 p 67; Dec 16 p 7 M'W Equipment Used in Tunnel Clearance Projects, July 29 p 50* Merger Agreement with UP, July 1 p 9; Aug 5 p 30; Aug 12 p 7; Sept 2 p 36; Sept 23 p 52; Sept 30 p 76; Oct 21 p 7; Nov 4 p 9; Nov 25 p 67; Dec 2 p 7; Dec 16 p 7

Merger Agreement with UP, July 1 p 9; Aug 5 p 30; Aug 12 p 7; Sept 2 p 36; Sept 23 p 52; Sept 30 p 76; Oct 21 p 7; Nov 4 p 9; Nov 25 p 67; Dec 2 p 7; Dec 16 p 7
Outlook for 1963, July 22 p 23
Chicago South Shore & South Bend:
Seeks to Discontinue 36 Off-Peak Hour Trains,
Sept 2 p 36; Oct 7/14 p 200
Seeks to Reduce Commuter Fares for South Bend
Passengers, Dec 16 p 48
Chicago Transit Authority:
Air-Conditioned Care Ordered, July 1 p 20*; Plastic
End Panels, Aug 5 p 16*; Oct 21 p 21
Cost of Living Increase, Sept 2 p 36
Tickets to Carry Advertising, Aug 19 p 30
To Buy CNS&M for Shuttle Service, Aug 26 p 74;
Oct 28 p 44; Nov 4 p 18
Christmas is Too Short, Dec 23/30 p 42†
Cincinnati, New Orleans & Texas Pacific Tunnel Improvement Work Completed, July 22 p 13
Cincinnati Southern Tunnel Improvement Work Completed, July 22 p 13
Circuit Controls, Pyle-National, Aug 5 p 33*
Claims: Uniform System of Reporting to Central
Agency Proposed, Nov 11 p 42¢
Clark Equipment Co:
Air-In-Floor Freight Handling System, Nov 25
p 97*; Air-In-Pallet Kit, Dec 23/30 p 34*
Aluminum Truck Bodies, Aug 19 p 34
Push-Pull Rack for Lift Trucks, Aug 12 p 33*
Clean Up Program; PRR, Nov 25 p 65; Dec 9 p 56*
Cleaners:
Air Filter Washer; Ramco Equip. Co., July 15 p 38*
Car Cleaning Unit; J. S. Miller RR Sales, Dec 9
p 50*
Tank Cleaning Unit; Oakite Prod., Oct 21 p 34*
Tank Washer; Oakite Prod., Aug 5 p 39*
Spray Cleaning Unit; Oakite Prod., Oct 21 p 34*
Tank Washer; Wandotte Chem. Corp., Dec 16 p 42
Ultrasonic Cleaner; L&R Mig. Co., July 22 p 29*
Washer Unit; L&A Prod., Dec 2 p 30*
Clearaces:
B&O Clarksburg-Parkersburg Line, Nov 11 p 12*
CRI&P Tunnels, July 20 p 50*

Clearances:
B&O Clarksburg-Parkersburg Line, Nov 11 p 12°
CRI&P Tunnels, July 29 p 50°
Southern's Rathole' Division, July 22 p 13
Cleveland Process Corp.: Immersion Heaters, July
29 p 65°
Cleveland Vibrator Co.: Car Vibrator, Sept 23 p 46°
Clevite Corp.: 100-Ton Journal Bearing, Oct 21 p 33°
Clevite Corp.: 100-Ton Journal Bearing, Oct 21 p 33°
Coal:

Coal:

Export Predictions, Sept 23 p 48; Nov 4 p 42
Jobs Created in Appalachian Area, Dec 9 p 56
Unit Train Key to Survival of, Nov 4 p 40*
Coal Handling Facility of U. S. Steel, Use of Car Retarders and Gravity at, Dec 23/30 p 28*
Coal Pier Six at Lambert's Point; N&W, Sept 16 p 23*;
Sept 23 p 48
Coal Rates Cases, C&EI Joint Rail-Water, July 29
p 69; Dec 9 p 40
Coal Truck Service Organized by Leaseway Transportation Corp., Nov 25 p 104
Coatings:

Metal Protector; LPS Research Laboratories, Sept 2 p 30

Metal Protector; LPS Research Laboratories, Sept 2 p 30
Zine; Ind Metal Protectives, Sept 16 p 34
Coil Car; Evans Prod. Co., Nov 25 p 88*
Collective Bargaining; Is 'Bargaining' So Sacred?,
Aug 5 p 42f; Sept 9 p 38f
Color of LV Box Cars is White, Aug 5 p 27
Combined Railway Suppliers' Exhibit (See American Railway Progress Exposition)
Committee Against Unlawful Transportation:
Booklet Reissued, Dec 2 p 36
Notes Gain in 'Bootleg' Fight, July 15 p 42
Common Carriers:
Share of Gross National Product, Sept 30 p 76
Urged to 'Think as Industry', Oct 7/14 p 160
Communications Systems: (See also Microwave; Radio)
Automation Steps Ahead, Oct 7/14 p 109*
Unter-Railroad, Need for, Oct 7/14 p 199
Unat's Ahead for SURCOM?, Nov 18 p 9*
Commutation Service (See Passenger Service: Suburban Service)

ban Service)
Competitive Transportation:
Christmas is Too Short, Dec 23/30 p 42†
Eastern Gas & Fuel Associates Converts Colliers to
Barges for Coal Traffic, July 15 p 44
Rs' Share of Forwarder Business, Nov 18 p 10
Technological Challenge, July 22 p 16*; Dec 2 p 38
Unit Train Key to Coal's Survival?, Nov 4 p 40*
Will the ICC Update Itself?, Dec 9 p 58†

Compulsory Arbitration:

NITL Opposes, Dec 9 p 43
Sen. Wayne Morse on, Aug 26 p 70
Secy. Wirtz Opposes, Aug 5 p 40
Shippers Polled on, Aug 26 p 9; Sept 2 p 38†
Work Rules Dispute Settled by, Sept 2 p 9; Sept 9 p 7, p 10; Arbitration Panel Members, Sept 16 p 36*; Sept 23 p 46*; Hearings, Sept 30 p 70; Nov 11 p 9*; Nov 25 p 9*; Award Flied, Dec 2 p 9; Dec 9 p 42, Operating Unions Challenge, Dec 16 p 9; Dec 23/30 p 7
Computers (See Electronic Data Processing)
Construction Projects:
Clearances Raised for TOFC on B&O, Nov 11 p 12*
Clearances Raised in CRI&P Tunnels, July 29 p 50*
NS Replaces Trestle with Culvert and Embankment, Nov 4 p 21*
Southern Unplugs the 'Rathole', July 22 p 13
Container Corp. of America: Lumber Pack, Oct 28 p 50*
Container Manufacturers; Outlook for TOFC Equipment, Aug 26 p 19*
Container Service:
Army Tests Flexi-Vans in Rail-Truck-Ship Service, July 8 p 24*

Container Manufacturers; Outlook for TOFC Equipment, Aug 28 p 19:
Container Manufacturers; Outlook for TOFC Equipment, Aug 28 p 19:
Container Service:
Army Tests Flexi-Vans in Rail-Truck-Ship Service, July 8 p 24*
REA Express, Expands Unit-Haul Plan, Nov 11 p 40
REA Express, to Japan, Sept 9 p 40
Star Forwarders Rail-Sea Service, Oct 21 p 38
Systems Approach Proposed, July 15 p 32 container Traffic, ICC to Collect Statistics on, Dec 23/30 p 40
Containers:
Equipment Showcase, Aug 26 p 24*
Purchases Projected to 1987, 1970, Aug 26 p 20
RR-Owned or Leased in Service, Aug 28 p 20
Standardization, Progress in, Aug 26 p 23/30 p 40
Till-Tainer; Ship Container Corp., Sept 23 p 45*
USS Design and Transfer Concepts, July 22 p 24*
Unloading from Moving Train: Suly 22 p 24*
Conveyor, Ropper Car Unloading, McCormickArmstrong, July 29 p 65*
Conveyor System: ACL Air Brake Shop at Waycross, July 8 p 18*
Nov 25 p 63*
Coordination of Traffic and Operating Departments,
Pros and Cons of, July 29 p 20
Coordination of Transportation (See Transportation,
Integrated)
Copperloy Corp.: Pallet Lifter, Nov 25 p 97
Cony Machine; Charles Bruning Co., Dec 16 p 41*
Cord, Super-CordX; General Elec, Aug 19 p 33
Cosmodyne Nitrogen Refrigeration, Aug 26 p 67*
Cost Evidence in Competitive Rate Cases, ICC Modifies Plan for, Nov 18 p 28
Cost Finding, Computers Add Flexibility to, July 8
p 18
Cost Finding, Computers Add Flexibility to, July 8
p 18
Cost Finding, Computers Add Flexibility to, July 8
p 18
Cost Finding, Computers Add Flexibility to, July 8
p 18
Cost Finding, Computers Add Flexibility to, July 8
p 18
Cost Finding, Computers Add Flexibility to, July 8
p 18
Cost Finding, Computers Add Flexibility to, July 8
p 18
Cost Finding, Computers Add Flexibility to, July 9
p 34*
Cost Evidence in Competitive Rate Cases, ICC Modifies Plan for, Nov 18 p 28
Cost Finding, Computers Add Flexibility to, July 1 p 34*
Crostice Sepa

p. 50* Cushman Motors: Utility Vehicle, Dec 23/30 p 34* Cybernetics Division Under Consideration by AAR, Dec 2 p. Cybernetics Symposium Sponsored by UIC, Sept 9 p 24; Nov 11 p 27; Dec 2 p 17

D

Dearborn Chem. Co.: Alkaline Cleaner, Aug 5 p 33 Deck Support, Cast-Steel; Scullin Steel Co., Oct 21 p 33*

Deck Support, Cast-Steel; Scullin Steel Co., Oct 21 p
33°
Decking, Car; Alger-Sullivan Co., Dec 9 p 50°
Defense Traffic Management Service:
Eastern RRs Rate Test to Continue, Oct 21 p 5
Freight Description Guide, Nov 18 p 40
Preparedness Pact with REA Express, Aug 19 p 7
Demurrage Charges, Shippers' Views on, Sept 16 p 36;
Oct 28 p 43
Denver & Rio Grande Western:
Keeping Tabs on Radios, Nov 25 p 41
Passenger Piggyback Service, Aug 26 p 7
Verdict for Frostbitten Employee, Dec 16 p 48
Deregulation is Inevitable, Why, Sept 30 p 78†
Detectors: (See also Hotbox Detectors)
Presence; Aid in Switching, July 18 p 16
Show and Ice; Frontier Electronics, Sept 9 p 33
Train Inspection Stations, Oct 7/14 p 109°
Wheel Defect; Wheel Checkers, Nov 18 p 34°; Dec 16
p 23°

Detroit, Toledo & Ironton:
Ann Arbor Sold to, Sept 9 p 7
Auto-Parts Box Cars, Aug 19 p 44*
Clubb, J. E., Named President, Sept 30 p 7
DeVilbiss Spray Applicator for Fiber Glass, July 22
n 29*

p 29*
Dining Car Service:
Meal-A-Mat Cars; NYC; Sept 23 p 52
Meal Coupons Sold by ACL, Nov 25 p 104
Vending Machines on AT&SF, July 15 p 28*
Diversification of Transportation: StL-SF Barge Line
Application Dismissed by ICC, July 15 p 44
Door for Auto-Parts Cars; Youngstown Steel Door Co.,
Aug 19 p 15*
Douglas Fir Plywood Assn.: Plywood Flooring, Nov 25
p 98

p 98
Draft Gear, Hydraulic: (See also Cushioning Devices)
Ajax-Consolidated Co., Dec 16 p 42
Cardwell Westinghouse, Dec 9 p 50*
Shock Absorption Gear; W. H. Miner, Inc., Dec 2 p

Duluth, Missabe & Iron Range: Harriman Safety Award, Sept 16 p 40

Earnings: Are the RRs Rich or Poor?, Sept 9 p 30*; Oct 7/14 p 821

Estimate for 1963, July 22 p 22; Dec 9 p 9; Dec

Estimate for 1963, July 22 p 22; Dec 9 p 9; Dec 23/30 p 9
First Six Months, July 22 p 22; Sept 2 p 7; Sept 9 p 8; Nine Months, Dec 2 p 7
Eastern Gas & Fuel Associates Aims at RR Coal Traffic, July 15 p 44
Eastern RRs Rate Test for Heavy Loading of Government Freight to Continue, Oct 21 p 5
Economic Principles; Application to RR Problems, Aug 12 p 42f
Economics of Car Repairs, Sept 30 p 10; Oct 7/14 p 122
Edmonton Plans Banid Transit System, Dec 2 p 24

122
Edmonton Plans Rapid Transit System, Dec 2 p 24
Electro-Trace Corp.: Method for Heating Pipelines,
Sept 16 p 34*
Electrode, Westinghouse Improved, July 15 p 38
Electronic Alertness Control on Locomotive, Dec 9
p 38*
Electronic Car Identification (See Car Identification,
Automatic)
Automatic
Electronic Car Location Proposed, Sept 30 p 9
Electronic Controls for Pipelines, July 22 p 16
Electronic Data Processing: (See also Automated
Trains)

Electronic Controls for Pipelines, July 22 p 18
Electronic Data Processing: (See also Automated Trains)
Adds Plexibility to Cost Finding, July 8 p 18
Aid in Compiling Accurate Evidence for Rate Litigation, July 8 p 18
ACL to Install Center, Dec 2 p 15; Correction, Dec 16 p 47!
Claims Analysis by, Proposed, Nov 11 p 42†
GN Univae III in Service, Dec 9 p 42*
Improving Car Utilization with, Sept 30 p 9
MP Car Control Center at St Louis, Dec 16 p 21
Railroading by Computer, Sept 30 p 68
SURCOM, What's Ahead for, Nov 18 p 9*
Electronic Detectors to Detect Defects in Train Wheels and Running Gear, Sept 23 p 52
Electronic Flasher, Dec 9 p 49*
Electronic Information and Control System Developed by WP and GE, Nov 11 p 34
Electronic "Intercoupler": NYC, Nov 11 p 27
Electronic Message Switching Center; NYC, Nov 4 p 44
Electronic Scale; Reading, Sept 16 p 16*
Electronic Testing of Truck Springs, Nov 11 p 26*
Electronic Testing of Truck Springs, Nov 11 p 26*
Electronic Testing of Truck Springs, Nov 11 p 26*
Electronic Testing of Truck Springs, Nov 11 p 26*
Electronic Message System, Sept 2 p 33*
Electronic Weighing System, Sept 23 p 45*
Elgin, Joliet & Eastern: NSC Safety Award, Aug 19 p
40
Elwell-Parker Elec. Co.: Electric Trucks with Solid
State Steed Control Aux 68 n 67*

Elwell-Parker Elec. Co.: Electric Trucks with Solid State Speed Control, Aug 26 p 67 Employee Magazines: "Pennsy" Aids in L&D Cam-paign, Aug 12 p 14*

Employee stagazines. "Pennsy" Alas in LeD Campaign, Aug 12 p 14:
Employee Suggestion System on IC 25 Years Old, July 29 p 58:
Employees: (See also Names of Unions; Non-Operating Unions; Operating Unions; Training of Employees; Working Rules and Agreements)
Misinformed Employees, Oct 21 p 42†
Need for Better Communication with, Sept 9 p 42†;
Sept 16 p 42†
Number of (Monthly), Aug 5 p 7; Aug 19 p 7; Nov 4 p 7; Dec 9 p 7; Dec 23/30 p 7 Reasons Favoring One-Man Crews Rather Than Crewless Trains, July 1 p 26
Wage Demands of Boff.E. Nov 18 p 39
Wage Demands of Boff.E. Nov 18 p 39
Wage Demands of Boff.E. Nov 18 p 39
Wage Settlement with BSCP, Nov 11 p 34; Dec 23/30 p 40

Wage Demands of BLF&E, Dec 9 p 42
Wage Settlement with BSCP, Nov 11 p 34; Dec 23/30
Wage Settlement with BSCP, Nov 11 p 34; Dec 23/30
Wages: CTA Cost of Living Increase, Sept 2 p 36
Employment:
Jobs Generated by Coal Production in the Appalachian Area, Dec 9 p 56
Jobs Hinge on Traffic Volume, Aug 19 p 42†
Non-Ops Have Lost Jobs Too, Aug 26 p 76†
Engineering Spotlighted as Profit-Making Area, Oct
21 p 10*
Epoxy Compound; Screw & Bolt Corp., Sept 9 p 34
Epoxy Used to 'Glue' Rail Joints; AT&SF, Dec 9 p 19*
Equipment Leasing and Renting:
AAR Car Ownership Study, July 1 p 10; Nov 4 p 10;
Dec 23/30 p 14
Cars Leased to LI Under NY State Commuter-Aid
Program, Aug 5 p 13*
M/W Work Equipment, Oct 21 p 13
Reading Rail-Highway Trucks, Oct 7/14 p 183
Equipment Mig. Corp.: Cargo Control System, Nov 25
p 96*
Erie-Lackawanna:
Cars Spruced Up for World's Fair, Nov 18 p 7
Group-Travel Fares Reduced, July 8 p 7
Loan Application Turned Down, Nov 11 p 7; Dec 9
RMC Boltmaster Speeds Track Work, July 22 p 27*
Staff Changes, July 1 p 40; July 8 p 32*

Erie-Lackawamia: (Continued)
Train-as-Hotel Excursions Planned for World's
Fair, Sept 16 p 40
Withholds NJ Taxes Because of Financial Condition,
Dec 9 p 56
Esperantists, Railroad, Dec 23/30 p 21
Europe, Financing Equipment in, Nov 4 p 17
Evans Products Co.:
Coil Car, Nov 25 p 98*
Perfect! Box Cars Pay Off, Dec 2 p 12*
Exhibits (See American Railway Progress Exposition)
Explosives, Atomic, Potential Uses on Construction
Projects Studied by AT&SF, Aug 19 p 40
Export Market;
Alco Optimistic Over, Sept 9 p 35
Coal; Predictions for 1870, Sept 23 p 48; Nov 4 p 42
Japan Looks at U. S. as Market for Rapid Transit
Cars, July 29 p 72
Transportation Equipment Industry, July 8 p 31
U. S. Needs Integrated Transport System for, July 1
p 39

Fares (See Passenger Fares)
Fasteners: Olin Mathieson Chem. Corp., July 1 p 33*
Federal Communication Comm.: RRs to Adopt SplitChannel Radio Operation, Oct 21 p 36
Femco, Inc.: Audio Tone Units, Aug 19 p 33*
Fiber Glass, DeVilbiss Applicator for, July 22 p 29*
Fiber Glass, DeVilbiss Applicator for, July 22 p 29*
Fiber Glass Sheet; Air Logistics Corp., July 22 p 30
Filter, Bridging; R. W. Neill Co., Dec 16 p 41*
Financial World Annual Report Awards, July 29 p 71;
Oct 7/14 p 200; Oct 26 p 7
Financing of Equipment in Europe, Nov 4 p 17
Fines Paid by RRs, July 1 p 40; Aug 19 p 40; Oct 21 p
7; Nov 4 p 44; Dec 9 p 56
Firemen on Diesels:
Southern Hiring of Aged Men Upheld by Court, Aug 5
p 40; Aug 19 p 40; Nov 11 p 7
Union RR-BLE Pact Calls for Elimination of, Dec
23/30 p 25
Work Rules Dispute (See Working Rules and Agreements)

23/30 p 25

Work Rules Dispute (See Working Rules and Agreements)
Firemen Then and Now, Oct 7/14 p 15
Fittings, Aeroquip Webbing, July 29 p 66*
Flasher Relay; Gen. Ry. Signal Co., Dec 9 p 49*
Flexi-Van Service:
Army Rail-Truck-Ship Tests, July 8 p 24*
NYC Expands, Aug 19 p 40; Oct 28 p 56; Nov 25 p 49
SAL May Expand Mail Service, Sept 23 p 48
Flint, Sam: Needed—More Sam Flints, Sept 30 p 78†
Floodiight, Pyle-National, July 15 p 37*
Flooring, Materials; Western Railroad Supply Co., Nov
18 p 33
Flooring, Plywood; Douglas Fir Plywood Assn., Nov
25 p 98
Florida East Coast:
Brosnan, D. W., to Rejoin Board, Oct 21 p 7
Rail Line to Cape Canaveral, July 1 p 40
Seeks Reopening of SAL-ACL Merger Hearings, July
29 p 46
Strike by Non-Operating Unions, July 22 p 36; Aug
26 p 7; Nov 18 p 32; Nov 25 p 104; Emergency
Board Report, Dec 24/30 p 40
Feam Dispenser; United Process Machy. Corp., July
22 p 29
Ford Motor Co.: Auto-Parts Cars, July 8 p 34* (ACF);
Aug 19 p 14* (Greenville and Thrail)
Formulas, Cost, ICC Modifies Plan to Adopt, Nov 18
prometals.

Ford Motor Co.: Auto-Parts Cars., July 8 p 34* (ACF);
Aug 19 p 14* (Greenville and Thrail)
Formulas, Cost, ICC Modifles Plan to Adopt, Nov 18 p 28
Fort Worth Store Subway, Sept 2 p 22*
Franklin Container Corp.: Barrier Material, Oct 28
p 50*
Freight Car Loadings:
Estimate for 1963, Dec 23/30 p 9
Shippers' Estimates, July 1 p 10; July 22 p 22; Sept 30 p 69; Dec 23/30 p 30
Ton-Miles Generated by (Weekly), July 1 p 35; July 15 p 39; July 22 p 31; July 29 p 67; Aug 5 p 35; Aug 12 p 35; Aug 19 p 35, Aug 22 p 31; July 29 p 67; Aug 5 p 35; Sept 23 p 47; Sept 30 p 71; Oct 21 p 35; Oct 28 p 51; Nov 4 p 39; Nov 11 p 35; Nov 16 p 35; Nov 25 p 99; Dec 9 p 51; Dec 16 p 43
Weekly Reports, July 1 p 35; Aug 12 p 35; Aug 12 p 35; Aug 12 p 35; Aug 12 p 35; Sept 23 p 47; Sept 30 p 71; Oct 21 p 35; Aug 26 p 69; Sept 2 p 31; July 15 p 39; July 22 p 31; July 29 p 67; Aug 5 p 35; Aug 12 p 35; Sept 23 p 47; Sept 30 p 71; Oct 21 p 35; Oct 28 p 51; Nov 4 p 39; Nov 12 p 35; Sept 23 p 47; Sept 30 p 71; Oct 21 p 35; Oct 28 p 51; Nov 4 p 39; Nov 14 p 35; Nov 16 p 35; Nov 18 p 35; Nov 16 p 35; Nov 18 p 35; Nov 18 p 35; Nov 19 p 30; Nov 18 p 40
Freight Forwarder Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Forwarder Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Forwarder, Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Forwarder, Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Forwarder, Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Forwarder, Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Forwarder, Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Porwarder, Acquisition Provisions of IC Act, Bills to Clarify, July 22 p 10
Freight Porwarder, Acqui

Freight Rafes (See Rates, Freight)
Freight Service:
CMSTP&P "XL Special," Nov 25 p 13*
Customer Can be Wrong, July 8 p 36†
Fast, to West Coast, Oct 28 p 56; Nov 25 p 13*
Interview with R. H. Heilman, Sept 30 p 15*
Montana Rail Service is Good, July 15 p 36†
RRS Should Gear Service to Patrons' Desires, and
Price as Utilities Do, July 6 p 36†
Save Us from Crepe-Hangers!, Nov 25 p 106†
Soo Line's 'Supermarket' Plan, Sept 2 p 32
Union Carbide's Use of RRs, July 29 p 40*
Freight Traffic:

Freight Traffic:
Diversification Pays Off; N&W, Sept 23 p 20*
Doubling by 1980 Predicted, Nov 25 p 104
Effect of Strike-Talk on, Aug 26 p 9

Freight Traffic: (Continued)
How RRs Handle the Grain Movement, Aug 5 p 9*
MP Set to Handle Iron-Ore Traffic, Aug 12 p 25*
Unit Train Key to Coal's Survival?, Nov 4 p 40*
Fremont Ind.: Box-Car Cleaner, Dec 16 p 42
Frisco Transportation Co.: Barge Line Application
Dismissed by ICC, July 15 p 44
Frontier Electronics, Inc.: Snow and Ice Detector,
Sept 9 p 33
Fruehauf Trailer Co.: Flexi-Flat Car, Sept 30 p 58*
Fuel Additive, Diesel, Vitasul Ind., Dec 2 p 30
Fueling Systems, Automatic, Mech. Div. Report on,
July 1p 39
Full Crew Laws in New York State, New Effort to Repeal, Dec 23/30 p 40
Fume Exhauster, Ace-Sycamore, July 22 p 29*
Future of the Railways:
Are the RRs Rich or Poor?, Sept 9 p 30*; Oct 7/14 p
Benefick Proceeding Processing Process

821
Prench Railroader Sizes Up, A, Nov 4 p 17
Heilman, Richard H., on, Sept 30 p 15*
Saunders, Stuart T., on, Dec 16 p 22
Shippers Have High Hopes for '64, Dec 23/30 p 30
State of the Industry, July 22 p 22

Gate, Discharge; ACF Ind., July 22 p 30*
Gaynes Eng. Co.: Car Shock Simulator, Dec 2 p 30
General American Transportation Corp.:
Contract for Washington, D. C. -Boston Passenger
Travel Survey, Aug 12 p 10
Piggyback-Container Cars Delivered in 1963, Dec
23/30 p 24*
Plans to Acquire Buckeye Pipe Line Abandoned, Oct
28 p 56; Dec 2 p 7
Steadman Containers Licensed to, Dec 23/30 p 40
General Electric Co.:
Annual Report Wins Award, Oct 28 p 7
Electronic Information and Control System Developed
for WP, Nov 11 p 34 and Control System Developed
for WP, Nov 11 p 34
Locomotives, 5000-Hp, U50, Sept 9 p 36*
Loses Hotbox Detector Patent Infringement Suit, July
22 p 36
Power Cord, Aug 19 p 33

22 p 36
Power Cord, Aug 19 p 33
eneral Motors Corp.:
Electro-Motive Div.:
First GP-35 Locomotive Delivered to ACL, Nov
11 p 40; Nov 18 p 40*
Locomotive Warranty Time Increased, Sept 16 p

Locomotive Warranty Time Increased, Sept 16 p
40
General Precision, Inc.: Presence Detector An Aid in
Switching, July 15 p 16
General Railway Signal Co.:
Car Retarders at U. S. Steel Coal-Handling Facility
at Gary, Dec 23/30 p 26*
Crossing Controls, Dec 9 p 49*
Flasher Relay, Dec 9 p 49*
One-Frequency Radio Control, Sept 30 p 64
General Steel Industries: Underframe Ends, Nov 4 p
38*

General Steel Industries: Underframe Ends, Nov 4 p 38*
Generating Plants, Onan Diesel-Electric, Aug 19 p 33*;
Dec 9 p 49*
Generators, Steam; Ames Iron Works, Sept 23 p 46*
Generators, Steam; Ames Iron Works, Sept 23 p 46*
German Federal RR to Build 125-mph Passenger
Train, July 8 p 36
German, Plastic Train Developed in, July 15 p 7
Goodell Monoral System Proposed for Los Angeles,
July 22 p 36; Plan Rejected, Oct 7/14 p 200
Goodrich, B. F., Co.: Rubber Lining for Tank Cars,
Aug 67*
Gould-National Industrial Battery, Dec 16 p 42
Government Restraints on Efficient Railroading Must
be Removed, Oct 7/14 p 202
Government Subsidization of Some Citizens at the Expense of Others, Dec 16 p 50†
Grain, Ex-Rail, Moving Over the Great Lakes from
Chicago to Buffalo, ICC Clears Joint Rail-Water
Rates on, July 8 p 35
Grain Movement:
Canadian Shipment to Russia, Oct 7/14 p 183

Grain Movement:
Canadian Shipment to Russia, Oct 7/14 p 183
Car Pinch Felt by Grain Roads, Oct 28 p 9
Car Shortage Aids Truck Traffic, Nov 4 p 7
Heavy Loadings on CN, Dec 2 p 36
How RRs Are Handling, Aug 5 p 9
Grain Rate Case; Southern Ry.; ICC Reverses Division
2 Decision, July 22 p 32; July 28 p 74; Aug 12 p
31; Aug 19 p 31; Aug 28 p 7; Sept 30 p 76; Oct
7/14 p 149
Grand Central Station: Charity Ball to be Held on New
Year's Eve, Oct 28 p 56
Grand Trunk Western:
Auto Loading Terminal at Durand, Sept 16 p 40
Auto Rack Business increasing, Dec 16 p 48
Grants for Mass Transport Experiments, July 1 p 18, p 25s; Funds Authorized in 1961 Exhausted, July
15 p 29
Graphic Systems, Inc.: Boardmaster, Aug 5 p 22

15 p 29
Graphic Systems, Inc.: Boardmaster, Aug 5 p 22
Gray Area Transportation:
Bootleg Truckers Flourish, July 8 p 12*
Gains Noted in Bootleg Fight, July 15 p 42
Glikbarg, A. S., on, Oct 28 p 18*
Manufacturing Chemists Assn. Attacks, Aug 19 p 7
New Private-Carriage Law Urged, July 29 p 31
Virginia Seeks to Outlaw, Oct 7/14 p 200
Gray Co.: Portable Spray Unit, Sept 2 p 30
Gray Co.: Spray Gun, Aug 12 p 34*
Great Northern:
Cars, Aluminum Center Flow Hopper, Aug 19 p 11*
Cars, Aluminum Center Flow Hopper, Aug 19 p 11*

Cars, Aluminum Center Flow Hopper, Aug 19 p 11* Cars, Welded-Rail Rack, July 15 p 14* Dial Telephone-Data Transmission System, Oct 7/14

p 110
Tamping Track Through Turnouts, Dec 2 p 18e
Univac III Placed in Service, Dec 9 p 42e
Great Slave Lake Line Construction, Oct 7/14 p 183
Greenville Steel Car Co.: Auto-Parts Box Cars for
Ford Motor Co., Aug 19 p 14e
Griffin Wheel Co.: Cast-Steel Wheels of 36-In. Diameter, Nov 18 p 3
Grinders, Ingersoil-Rand Precision, Aug 12 p 34e
Gross National Product, Regulated Carriers' Share of,
Sept 30 p 76

Grove Mfg. Co.: Hydraulic Push-Pull Crane, Sept 23 p 46*
Gulf, Mobile & Ohio:
C&NW Sells Stock Interest, Sept 30 p 7
Merger Talks with IC, July 22 p 36
Gun, Mixer; Binks Mfg. Co., Sept 2 p 30*
Gypsum Assn.: Survey of Flat and Box Car Requirements, Dec 9 p 54

H

Harriman Safety Awards, Sept 16 p 40 Heater Cement; Thermon Mfg. Co., Sept 23 p 45*

Heaters:
Immersion; Cleveland Process Corp., July 29 p 65*
Space; Ingersoil-Rand, Dec 9 p 50*
Space; Vapor Corp., Aug 5 p 33*
Tank-Car; Hynes Elec. Heating Co., Dec 16 p 42*
Heating, Electrical; Electro-Trace Corp., Sept 16 p
34*

Heating, Electrical; Electro-Trace Corp., Sept 16 p 34*

Helicopter Weed Spraying; MP, Sept 23 p 52
Highway Expenditures Increase, July 15 p 10
Highway System, Financing of the, Dec 16 p 50†
Highways;
De Heavy Trucks Pay Their Way?; Report of AASHO Road Tests, Oct 71 4 p 168
Tolls for City Streets?, July 1 p 22*
Hitachi, Ltd.: Car Designs Submitted to PATH, July 1 p 21*
Hitachi, Ltd.: Car Designs Submitted to PATH, July 1 p 21*

19 p 21*
Hoppe, C. W.: PEAT Train Classification Plan, Oct 7/14 p 184

"Hotbox Detector Patent Infringement Suit Won by Servo Corp. of America, July 22 p 38
Hotbox Detectors
Servo Corp. of America, Nov 18 p 34
Soo Line Installing, Sept 23 p 52
Hotbox Statistics, July 1 p 40; Aug 12 p 40; Sept 30 p 78; Nov 18 p 10; Nov 18 p 40
House Committee on Interstate and Foreign Commerce:

merce: Minimum Rates Bill Rewritten, Oct 28 p 10; Nov 18

p 31

Transportation Act of 1963 Rewritten, Oct 21 p 40;
Oct 28 p 10; Nov 18 p 31

Roussing and Home Finance Agency (See Mass Transport Demonstration Programs).
Hydra-Cushion, Inc.: Sliding Sill for Application to Existing Cars, Aug 12 p 34*
Rydro-Tran Service to Alaska, July 29 p 71; Sept 23 p 52

Hynes Electric Heating Co.: Tank-Car Heater, Dec 16 p 42*

Illinois Central:
Air Rights Market, Boom in, Nov 11 p 14*
Antenna Pole Used in Vicksburg Yard's Radio Operations, Sept 23 p 44
Denial of Application to Control C&EI Recommended by ICC Examiner, Oct 7/14 p 190
Electronic Alertness Control on Locomotive, Dec 9 p 39*
Employee Succession System, 25th Anniversary of

by ICC Examiner, Oct 7/14 p 190
Electronic Alertness Control on Locomotive, Dec 9 p 39*
Employee Suggestion System, 25th Anniversary of, July 29 p 58*
Free Vacation for Best Idea, July 29 p 58*
Injunction Prohibits Strike Over Relocation of Facilities at East St. Louis, Nov 25 p 104
Merger Talks with GM&O, July 22 p 36
Outlook for 1963, July 22 p 23, p 36
Training Program, Semi-Automated, July 8 p 23
Illinois Legislature Passes RR Tax Relief Bill, July 22 p 36
Impactor, Heavy-Blow; Martin Eng. Co., Nov 4 p 38
Index to Volume 154 of Railway Age, Aug 26 p 74
Industrial Development;
CB&O's Greener Pastures, Sept 23 p 26*
Diversification Pays 0ff; N&W, Sept 23 p 20*
Optimistic Sites on the Future, Sept 23 p 26*
Tabulation of What RRs Do, Sept 23 p 18*
Tabulation of What RRs Do, Sept 23 p 24
Industrial Engineering, Growth of, Oct 21 p 34*
Industrial Metal Protectives, Inc.: Zinc Coating, Sept 16 p 34
Ingersoil-Rand Dry Air Package, Oct 21 p 34*
Ingersoil-Rand Precision Grinders, Aug 12 p 33*
Ingersoil-Rand Precision Grinders, Aug 12 p 34*
Ingersoil-Rand Space Heaters, Dec 9 p 50*
Insecticides; U. S. Santary Specialities Corp., Aug 5 p 33
Inspection Stations, Detectors Used at, Oct 7/14 p 109*
Insulation:
Foam; Coated on Car Exteriors, Dec 9 p 7
Polyurethane Panels; AT&SF Mechanical Refrigerator Cars, July 1 p 13*
Insulation:
Insulation:
Foam; Coated on Car Exteriors, Dec 9 p 7
Polyurethane Panels; AT&SF Mechanical Refrigerator Cars, July 1 p 12*
Insurance, Strike (See Strike Insurance)
Integral Trains (See Unit Trains)
Integrated Transportation (See Transportation, Integrated)
International Brotherhood of Teamsteas to Prive for

Intermodal Transportation (See Transportation, Integrated)

grated)
International Brotherhood of Teamsters to Drive for a National Agreement, Sept 9 p 40
International Business Machines Corp.: ACL Computer Center, Dec 2 p 15; Correction, Dec 16 p 471
International Railroad Weighing Corp.: Electronic Scale for Reading, Sept 16 p 16*
International Railway Equipment Co.: Indictment Against B&M Officers' Interest Dismissed, Aug 19 p 30; Dec 9 p 56
International Trade Agency Urged by H. G. Freas, Nov 4 p 13

International Trade Agency Urged by H. G. Freas, Nov 4 p 13 International Union of Public Transport Congress, July 1 p 26; Aug 5 p 17 International Union of Railways: Cybernetics Sympo-sium, Sept 9 p 24; Nov 11 p 27; Dec 2 p 17 Interstate Commerce Act: Bills to Clarify Forwarder Acquisition Provisions, July 22 p 10

Interstate Commerce Commission: ACL-SAL Merger Approved, July 29 p 46; Dec 23/30

p 24 Atlantic-Guif Ships Sea-Land Rate Case Reopened, July 1 p 40 ansport Economics and Statistics: Salaries Over \$25,000 in 1962, Sept 23 p 10 andy Rates, Water-Competitive, Upheld, Nov 11

Bureau of Transport Economics and Statistics:
Salaries Over \$25,000 in 1962, Sept 23 p 10
Candy Rates, Water-Competitive, Upheld, Nov 11
p 10
Car Supply Investigation, Dec 23/30 p 40
Cars. Hydroframe-60, Called Safe, Nov 25 p 41
C&EI Joint Rail-Water Rates on Ex-Rail Grain Approved, July 8 p 35
Cost-Evidence Plan Modified, Nov 18 p 26
Credit Practices Investigation, Aug 5 p 10
Destructive Competition as Interpreted by the Rate
Freedom Provisions of the Transportation Act of
1958 Determined by, Sept 30 p 10
Directed to Provide Sufficient Inspector Personnel
to Assure the Movement of Cars, Nov 25 p 10
East-West Divisions Case, July 8 p 38
Formal Cases Closed in Fiscal 1962, July 15 p 44
Freight Commodity Classification Code Adopted,
Oct 21 p 24
Fright Commodity Statistics, to Reappraise Reporting Requirements for, Oct 21 p 24
Frisco Transportation Co. Barge Line Application
Dismissed, July 15 p 44
Goff, Abe McGregor, Chairman for 1964, Dec 9 p 10
Labor Policies in Rail Mergers, Supreme Court Refuses to Review, Oct 21 p 40
Loans, Government-Guaranteed (See Loans)
Members, Photographs of, July 29 p 9*
MP Control of C&EI Recommended by Examiner,
Oct 7/14 p 190
NYNH&H All-Commodity Rates on Straight or Mixed
Shipments, Court Sets Aside Order on, Aug 5 p 40;
Aug 12 p 30; Nov 18 p 10; Nov 25 p 10
NRW-NYC Gestl- Wabsain Merger; PER Opposes
Neutralization Plan, Nov 25 p 66
Official-Southern Divisions Case, July 22 p 10
PRR-NYC Merger Hearing Statistics, Aug 26 p 10
PRR-NYC Merger Hearing Statistics, Aug 26 p 10
PRR-NYC Merger Hearing Statistics and 26 p 10
Section 22 Rates, Cannot Condemn, Sept 16 p 10
Service Order No. 947 to Ease Car Shortage, Nov 18
p 36
Signal Rule Changes Proposed, Sept 23 p 52
Southern Ry, Grain Rate Case; Division 2 Decision

p 36 Signal Rule Changes Proposed, Sept 23 p 52 Southern Ry. Grain Rate Case; Division 2 Decision Reversed, July 22 p 32; July 29 p 74†; Aug 12 p 31; Aug 19 p 311; Aug 26 p 7; Sept 30 p 76; Oct 7/14 p 149

Aug 19 p 311; Aug 26 p 7; Sept 30 p 76; Oct 7/14 p 149
Supreme Court Justice Black Sees 'Rail Blas' in Actions of, Dec 9 p 40
T&P Purchase of Three Roads Recommended by Examiner, Nov 11 p 11
To Collect Piggyback and Container Statistics, Dec 23/30 p 10
To Remain Flexible on Full-Cost vs. Out-of-Pocket Cost Basis of Rate Making, Sept 30 p 10
Track Motor Car Order Assailed by RRs, July 8 p 10; Aug 12 p 40; Aug 19 p 40
TOFC Investigation; Proposed Report, Sept 2 p 13; Nov 25 p 45, p 48; Dec 16 p 48
Transcontinental Divisions Case, July 8 p 36
Webb, C. A., Vice-Chairman, Dec 0 p 10; Change in Regulatory Policy, Dec 9 p 58†
WP Control by AT&SF Recommended by Examiner, Sept 16 p 9; Nov 4 p 10
Will the ICC Update Inteel?, Dec 9 p 58†
Inventories: April 1, Aug 5 p 35; July 1, Nov 11 p 35

Jackson Vibrators, Inc.: Automated Track Surfacing Equipment, Sept 2 p 33*

Japan:
Advantages of High-Speed RRs, Aug 5 p 40
Monorail at Himeji City, Dec 2 p 23*
Monorail at Himeji City, Dec 2 p 23*
Monorail to Tokyo Airport, Sept 2 p 36
U. S. Market for Rapid Transtt Cars, July 29 p 72
Job Stabilization Demands, Shopmen Circulate Strike
Ballot in Connection with, Nov 11 p 7
Jogan Ind.: Emergency Lantern, July 15 p 37*
Journal Bearing Assemblies: Clevite 100-Ton Cartridge, Oct 21 p 33*
Journal Lubricators (See Lubricators, Journal)
Journal Stops:
Callaway Mills, Inc., July 1 p 34*
Southland Mig. Co., July 1 p 33*
Joy Mig. Co. Current Relay, July 22 p 30*

Kaiser Aluminum & Chemical Corp.:
Bills of Lading, New Form for, Sept 30 p 76
Center Flow Hopper Cars, Aug 19 p 11*
Kansas, Oklahoma & Gulf Purchase by T&P Recommended by ICC Examiner, Nov 11 p 11
Klein, Mathias, & Sons, Inc.:
Insulated Screwdriver, Aug 19 p 34
Jab Saw, Sept 16 p 34
Kit, TFC Delivery Bin, Nov 18 p 33
Kux Mfg.: Trailer Numerals and Letters, Nov 25 p 98

L

L&A Products, Inc.: Washer Unit, Dec 2 p 30* L&R Mfg. Co.: Ultrasonic Cleaning Units, July 22 p 29* LCL Business. RRs Fight to Increase, July 29 p 23 LCL Plan. ACL Finds Profit in, Oct 28 p 45*

LPS Research Laboratories: Metal Protector, Sept 2

LPS Research Laboratories: Metal Protector, Sept 2 p 30
Labor-Management Relations:
AAR-RLEA Compromise on Amendments to Rall-road Retirement and Railroad Unemployment Insurance Acts, July 29 p 71; Aug 19 p 10; Aug 26 p 10; Oct 21 p 7
Better, Urged by D. P. Loomis, Oct 21 p 18
Christmas is Too Short, Dec 23/30 p 42†
How to Improve, July 22 p 28; Sept 9 p 24, p 381
Interview with C. L. Dennis, Sept 9 p 13*, p 427
Misinformed Employees, Oct 21 p 427
Need for Better Communication with Employees,
Sept 9 p 42†; Sept 16 p 42†
Retraining of Journeymen, Oct 28 p 47
Views of John Budd on, Dec 23/30 p 17
Labor Unions' Attitude Toward Automated Trains, Aug 5 p 19
Lake Champlain Waterway (See St. Lawrence-Hudson River Waterway)
Lake Erie-Ohio River Canal:
Corps of Engineers Makes New Study, July 1 p 36
Economic Questions, July 15 p 40*; Dec 16 p 20
Land Use, How to Increase, Oct 21 p 13
Landing Gear, Binkley Trailer, Sept 23 p 48*
Lantern, Jogan Emergency, July 15 p 37*
Leaseway Transportation Corp.: Coal Truck Service,
Nov 25 p 104
Lesislative Activity, RPI to Coordinate, Oct 21 p 17
Lehigh & Hudson River:
Business at All-Time High, July 22 p 13*
Lehigh Vailey:
Cars, Box, Painted White, Aug 5 p 27
New Piggyback Service, Sept 30 p 76
Operations Streamlined, Nov 4 p 43
Trainload Movements of Coal, July 29 p 71
Lenard's Department Store Operates Ft. Worth Subway, Sept 21 p 22*

Javand's Department Store Operates Ft. Worth Subway, Sept 21 p 22*
Libbey-Owens-Ford Glass Co.: Electrapane Windshields, July 1 p 34*
Lighting Fixture for Transit Coach; Luminator, Dec 2 p 30*
Lining, Rubber, for Tank Cars; B. F. Goodrich Co., Aug 26 p 67*
Link-Belt Welded-Rail Transport Equipment, July 15 n 14*

p 14* Link Presence Detector-An Aid in Switching, July 15

Boston & Maine, Aug * p 7 E-L Application Turned Down, Nov 11 p 7; Dec 9 p

56 Loan Guarantee Provision of Transportation Act of 1958 Dies, July 8 p 22 Loans Approved and Pending, July 8 p 23 NYNR&H Makes Partial Payment, Nov 25 p 7 Reading to Finance Capital Expenditure Program, Sept 16 p 13*

Loans, World Bank, Favored for U. S. Railroads, Dec 23/30 p 5, p 21

Loans (See also Grants)

Locomotive Performance: UP Gas-Turbine-Electric Locomotives, July 1 p 39

Locomotives:

Diesel-Electric:

Age Distribution, Jan. 1, 1962, Sept 9 p 32

Alco Century 626 2750-Hp., Aug 26 p 50*

14-Year Replacement Policy Indicated, Oct 28 p 48

GE 5000-Hp. U50, Sept 9 p 36*

GE 6-Axle 2500-Hp. U25C, Sept 9 p 36*

High Horsepower, Story Behind, Oct 7/14 p 52*

L&HR Gets Alco Century 420's, July 22 p 13*

Gas Turbine Turbojet of 16,000-Hp. Mentioned as a Possibility, Nov 11 p 40

Given to Museum by NYC, July 15 p 44

Given to Newport News by C&O, Sept 9 p 40

ong Island: Diesel-Electric:

Given to Museum by NYC, July 15 p 44
Given to Newport News by C&O, Sept 9 p 40
Long Island:
Air Rights Market, Nov 11 p 16; Nov 25 p 681
"Car Inspector General" Sent to P-8 Plant, July 1
p 40; Aug 5 p 13*
Cars, High-Speed m-u, Aug 5 p 13*; Sept 2 p 36
Locomotive Replacements, July 22 p 7
NY World's Fair Station Opened, July 15 p 18
Off-Peak Passenger Travel Promoted, Dec 16 p 32
Station to be Built at Islip, July 15 p 46
Strike Insurance Pact, Supreme Court Refuses to
Review, Oct 21 p 7
Lord Mg. Co.: Center Plate Bearing, Nov 4 p 37*
Los Angeles Metropolitan Transit Authority:
Monoral Plans Rejected, July 15 p 361; July 22 p 36;
Oct 7/14 p 200; Nov 4 p 18
Proposed Routes to be Reviewed, Aug 5 p 17
Los Angeles Traffic Institute Courses, Aug 26 p 74
Loss and Damage Prevention:
Damage-Control Material, Nov 25 p 98*
Evans "Perfect" Box Cars Pay 0ff. Dec 2 p 12*
Freight Forwarder's Problems, Oct 28 p 19; Nov 25
p 681
How PRR Cuts L&D Bills, Aug 12 p 13*
Uniform System of Reporting Claims to Carsten

p 681
How PRR Cuts L&D Bills, Aug 12 p 13*
Uniform System of Reporting Claims to Central
Agency Proposed, Nov 11 p 42†
Winning Stogan; ARMEA Contest, Sept 30 p 74
Louisville & Nashville:
Auto Rack Car Time Cut, Sept 23 p 52
Cars, Bulkhead Flat, Shippers Like, Nov 25 p 76*

*Illustrated; † Editorial; †Letters from Readers

Louisville & Nashville: (Continued)
Cars, 100-Ton Hopper, Use 5 Steels, Nov 4 p 32*
Cars, 7000-Cu. Ft. Wood-Chip, Oct 28 p 24*
Civil War Centennial Award, July 8 p 36
Denial of Application to Acquire Some C&EI Lines
Recommended by ICC Examiner, Oct 7/14 p 190
Radio Controls Cab Signals, July 29 p 41
Ramp, Portable, for Piggyback, Dec 16 p 31*
Yard at Madisonville, Nov 18 p 18*
Lubricants

Lubricants:
Alpha-Molikote Bonded, July 22 p 30
Spray; G. W. Smith & Sons, Aug 12 p 33
Lubricators, Journal;
AAR Approval Withdrawn from Three Lubricators,
Dec 23/30 p 40
Specification Changes Approved by AAR Member
Roads, Sept 30 p 74; Nov 18 p 37
Lumber Pack; Container Corp. of America, Oct 28 p
50*

50* Luminator, Inc.: Transit Coach Lighting Fixture, Dec 2 p 30* Lynch Communication Systems, Inc.: Compandor Unit, July 1 p 34*

M

M & O Ry; Ft. Worth Subway, Sept 2 p 22* Magnetic Ink-Recognition Systems, Check Handling Under, Sept 30 p 68 Magnus Metals Corp.: Winners of "Hotbox Derby",

Under, sep 30 p 88

Magnus Metals Corp.: Winners of "Hotbox Derby",
Nov 18 p 40

Magor Car Corp.: Aluminum Gondola Cars for Alcoa
Mineras of Jamaica, Aug 5 p 30*
Mail Handling:
Christmas Mail to be Handled by RRs, Dec 9 p 56
NYC Flext-Van Service Expanded, Oct 28 p 56
SAL May Expand TOFC Service, Sept 23 p 48

Maine Central: Paper Mill Construction to Aid, Nov 25
p 104

Maintenance of Equipment: Economics of Car Repairs,
Sept 30 p 10; Oct 7/14 p 122

Maintenance of Radios; D&RGW, Nov 25 p 41

Maintenance of Radios; D&RGW, Nov 25 p 41

Maintenance of Way:
Mechanization and Production Control, Oct 21 p 10

Norfolk Southern Programs Ahead, Aug 5 p 22*

Maintenance of Way Equipment:
Automated Raising and Leveling Equipment for
Track Surfacing; C&NW, Sept 2 p 33*

Boltmaster Speeds E-L Track Work, July 22 p 27*

CRI&P Tunnel Clearance Project, July 29 p 50*

Renting of, Oct 21 p 13

Sophisticated Machines in Use, Oct 7/14 p 87*

Management:
Stt.-SF Reshuffles, Sent 2 p 32

Sophisticated Machines in Use, Oct 7/14 p 87*
Management: StL-SF Reshuffles, Sept 2 p 32
Top Officers Aid MP Trainees, July 29 p 54*
Manning, Maxwell & Moore Geared Trolleys, Aug 26
p 67*
Market Outlook, July 1 p 35; July 8 p 31; July 15 p 39

p 67*
Market Outlook, July 1 p 35; July 8 p 31; July 15 p 39;
July 22 p 31; July 29 p 67; Aug 5 p 35; Aug 12
p 35; Aug 19 p 35; Aug 26 p 69; Sept 2 p 31; Sept 9
p 35; Sept 16 p 35; Sept 23 p 47; Sept 30 p 71; Oct
7/14 p 183; Oct 21 p 35; Oct 28 p 51; Nov 4 p 39;
Nov 11 p 35; Nov 16 p 35; Nov 25 p 99; Dec 2 p 31;
Dec 9 p 51; Dec 16 p 43; Dec 23/30 p 35
Market Surveys Pay Off for B&O, July 8 p 30
Markettur:

Market Surveys Pay Off for B&O, July 8 p 30
Marketing:
How Much Magic in, July 29 p 19*
RSMA Seminar, Dec 9 p 52
Southern Ry. Techniques, July 29 p 23
Starts to Pay Off, July 29 p 21*
Supplier's Viewpoint, July 29 p 24*
Used in Planning Freight Equipment, Oct 7/14 p 48
Western Pacific Techniques, July 29 p 19
Markets:

Supplier's Viewpoint, July 29 p 24*
Used in Planning Freight Equipment, Oct 7/14 p 48
Western Pacific Techniques, July 29 p 19
Markets:
Air Rights Boom, Nov 11 p 14*; Nov 25 p 681
Boom in TOFC, Aug 26 p 19*
Japan Looks at U. S. as Market for Rapid Transit
Cars, July 29 p 72
Mass.-Transit Automation, Aug 5 p 18*
Microwave, Nov 11 p 19
Monorail, July 29 p 69
Steel Makers See Bigger Car Market, Dec 16 p 44
USS Outlook for Containers, July 22 p 24*
Marquardt Corp.:
Educational Program, Dec 16 p 47!
Electronic Crossing Protection System, Oct 21 p 17;
Dec 9 p 49*
Martin Eng. Co.: Impacting Device, Nov 4 p 38
Mass Transit Bill Bogged Down, Oct 21 p 21, p 28
Mass Transit Bill Bogged Down, Oct 21 p 21, p 28
Mass Transport:
Achieving New Status in Cities, Oct 21 p 24
Automation Concepts and Hardware, Aug 5 p 18*
Easy Lessons in Economics, July 1 p 42†
Federal Ald; NARED Stand Opposed, July 1 p 40
President Johnson a Supporter of, Dec 9 p 40
RPI Brochure "The Future of Cities", Aug 26 p 74
Southeastern Pennsylvania Transportation Authority
Created, Sept 2 p 19
Subsidies for; H. M. Barnes on Aug 12 p 40
Washington, D. C.-Boston Study, Aug 12 p 10; Oct
7/14 p 200
Mass Transport Demonstration Programs:
BARTD to Test Track and Equipment, July 1 p 18;
Oct 21 p 40; Oct 28 p 7; Dec 2 p 38
Choked Cities Coughing Up Cash for, July 15 p 29
Funds Authorized in 1961 Exhausted, July 15 p 29
Funds Authorized in 1961 Exhausted, July 15 p 29
Improving Commuter Service from Queens and
Nassau to New York City, July 1 p 18
Massachusetts Mass Transportation Comm., July 29
p 71; Sept 2 p 36; Sept 9 p 39; Dec 9 p 39
Pittisburgh "Skybus" Project, July 1 p 28
Massachusetts Mass Transportation Comm.: Federal
Mass Transport Experiment, July 29 p 71; Sept 2
Southeastern Fennsylvania Transportation Compact
Study, July 1 p 18
Massachusetts Mass Transportation Comm.: Federal
Mass Transport Experiment, July 29 p 71; Sept 2
P 39; Sept 9 p 39; Dec 9 p 39
Material for Controlling Damage; Equipment Mfg.
Corp., Nov 25 p 98*

Material for Controlling Damage;

McCormick-Armstrong Unloading Conveyor, July 29

McCormick-Armstrong Unloading Conveyor, July 29 p 65*

Meal-A-Mat Restaurant Cars; NYC, Sept 29 p 52

Meal Coupons Sold by ACL, Nov 25 p 104

Mechanical Officer's New Role, Oct 21 p 14*

Meetings of RR Associations, July 29 p 61

Mergers:

Activity Stirring, Nov 4 p 9

ACL-SAL Merger Approved by ICC, July 29 p 46;

Dec 23/30 p 24

BLF&E Advocates Merger with BLE, July 15 p 7

C&O Control of B&O Upheld by Courts, Aug 19 p 10;

Dec 16 p 7

BLF&E Advocates Merger with BLE, July 15 p 7
C&O Control of B&O Upheld by Courts, Aug 19 p 10;
Dec 16 p 7
C&NW-CMStP&P-CRI&P Proposal, July 1 p 9; July
15 p 44; Aug 5 p 30; Aug 12 p 7; Sept 2 p 36; Sept
23 p 52; Nov 25 p 67; Dec 16 p 7
Fact vs. Myth; D. P. Loomis on, July 1 p 29*
IC-GM&O Talks Moving Along, July 22 p 36
ICC to Make Report to Senate Appropriations Subcommittee, July 8 p 36
MP Control of C&EI Recommended by ICC Examiner, Oct 7/14 p 191
MP-T&P to Merge, Dec 9 p 7
Moratorium Proposal Before Senate Commerce
Committee, Aug 19 p 40
New England Area Study, Nov 4 p 9
NYC-PRR Hearings, Statistics on, Aug 26 p 9
N&W-NYC&StL-Wabash; PRR Opposes Neutralization Plan, Nov 25 p 66
Rivalry Grows, July 1 p 9*
Soo Line-CGW Study Called Off, Nov 18 p 7
Supreme Court Refuses to Review ICC Labor Policies in, Oct 21 p 40
Switchmen's Union to Explore Possibilities, Aug 12
p 40
UP-CRI&P, July 1 p 9; Aug 5 p 30; Aug 12 p 7; Sept
2 p 36; Sept 23 p 52; Sept 30 p 76; Oct 21 p 7; Nov
4 p 9; Nov 25 p 67; Dec 2 p 7; Dec 16 p 7
Meter-Makers, Inc.: Turbocharger Tester, Aug 5 p 33
Metering Pump Unit; Binks Mig. Co., Dec 9 p 50*
Meteropolitan Transit Authority (Boston): Park-andRide Plan, Sept 9 p 40
Microwave:
AT&SF Orders System from RCA, Aug 19 p 35

Metering Pump Unit; Binks Mfg. Co., Dec 9 p 50° Metropolitan Transit Authority (Boston): Park-and-Ride Plan, Sept 9 p 40 Microwave:

AT&SF Orders System from RCA, Aug 19 p 35 C&NW Installation, Nov 11 p 20° Systems in Operation or Authorized, Nov 11 p 19 Microwave Stations, Motor Trucks to Provide Emergency Power at; CNT, July 8 p 20 Midland Valley Purchase by T&P Recommended by ICC Examiner, Nov 11 p 11 Mileage, Rail and Air, in 1962, Dec 16 p 10 Miller, John S., Railroad Sales: Car Cleaner, Dec 9 p 50° Miner, W. H., Inc.: Shock Absorption Gear, Dec 2 p 30 Minimum Rates Legislation:

Hearings on, Sept 30 p 76; Oct 7/14 p 148; Nov 4 p 44 Outlook for Passage of, Oct 7/14 p 148, p 149 RLEA Supports, Sept 23 p 7 Rewritten by House Committee on Interstate and Foreign Commerce, Oct 28 p 10; Nov 18 p 31; Dec 23/30 p 10 Trans-Missouri-Kansas Shippers' Board Opposes, July 8 p 36 Minnesota Mining & Mfg. Co.: Accessories for Flat Cable, Sept 16 p 34° Mississippi River Traffic in 1962, July 29 p 71 Missouri Pacific: Car Control Center at St. Louis, Dec 16 p 21 Car Unloader Dumps Stone for Rail-to-Water Transfer, July 15 p 35° Control of C&EI Recommended by ICC Examiner, Oct 7/14 p 190 Helicopter Weed Spraying, Sept 23 p 52 Merger with T&P Planned, Dec 9 p 7 Outlook for 1963, July 22 p 23° Stone Heaven States of Transfer, July 29 p 54° Miner States of Miner States of Transfer, July 29 p 68 Costs Compared with Rapid Transit, Oct 21 p 20, 2 p 23 Stone Top Officers Aid Trainees, July 29 p 54° Los Angeles Proposals, July 15 p 36; July 22 p 36; Plans Rejected, Oct 7/14 p 200; Nov 4 p 18 NY World's Fair, July 29 p 68, Aug 5 p 17°; Sept 9 p 35° Seattle Monorall's Future Undecided, Oct 21 p 20 Seattle Monorall's Future Undecided, Oct 21 p 20

Plans Rejected, Oct 7/14 p 200; Nov 4 p 18
NY World's Fair, July 29 p 68; Aug 5 p 17*; Sept
9 p 35
San Francisco Rejects, Nov 4 p 19
Seattle Monorail's Future Undecided, Oct 21 p 20
Test Track at Himeji City, Japan, Dec 2 p 23*
Montana Rail Service is Good, July 15 p 362*
Montana Rail Service is Good, July 15 p 368*
Motor Fruck Bodies, Aluminum; Clark Equip. Co.,
Aug 18 p 34*
Motor Truck Sodies, Aluminum; Clark Equip. Co.,
Aug 18 p 54*
Motor Truck Size and Weight Limitations:
Report of AASHO Othawa Road Tests, Oct 7/14 p 168
States are Liberalizing, July 15 p 10; Sept 2 p 36*
Motor Truck Fize and Weight Limitations:
Report of AASHO Othawa Road Tests, Oct 7/14 p 168
States are Liberalizing, July 15 p 10; Sept 2 p 36*
Motor Truck Fize First Quarter, Aug 5 p 40; First
Half, Sept 9 p 7; Three Quarters, Dec 16 p 48
Motor Trucks:
Do Heavy Trucks Pay Their Way?; Report of AASHO
Road Tests, Oct 7/14 p 168
Obsolete and Overage on RRs, Nov 11 p 40
Rail-Highway, Leased by Reading, Oct 7/14 p 183
Technological Developments in, July 22 p 18*
Used as Mobile Power Units by CNT, July 8 p 20
Motorola Communications & Electronics, Inc.:
C&NW Microwave Installation, Nov 11 p 20*
Two-Way Portable Radio, Nov 18 p 34*
Music to Ride the Train by, Dec 16 p 32

National Academy of Sciences, National Research Council: Report on Science and Technology in the Railroad Industry, Oct 7/14 p 152 onal Association of Shippers' Advisory Boards: Annual Meeting, Oct 7/14 p 166; Oct 21 p 18

National Capital Transportation Agency Transit Plan Opposed by Highway Interests, July 15 p 10; Setback for, Dec 16 p 48
National Defense:

Transportation Problems, Dept of Commerce Assigns Study of, Aug 12 p 10
Transportation Problems, Dept of Commerce Assigns Study of, Aug 12 p 10
National Defense Transportation Association: Annual Meeting, Oct 28 p 55
National Industrial Traffic League:
Annual Meeting, Nov 28 p 104; Dec 9 p 43
National Rallways of Mexico: Diesel Locomotives
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 7,14 p 186*
Built at San Luis Potost, Oct 9, 14 p 186*
Built at San Luis Potost, Oct 9, 14 p 187
Built at San Luis Potost, Oct 9, 14 p 187
Built at San Luis Potost, Oct 9, 14 p 187
Built at San Luis Potost, Oct 9, 14 p 187
Built at San Luis Potost, Oct 9, 14 p 187
Built at San Luis Potost, Oct 9, 14 p 19 p 18; Nine Months, Dec 2 p 7; Dec 9 p 9; Dec 23, 30 p 9

First Six Months, July 22 p 22; Sept 2 p 7; Sept 9 p 8; Nine Months, Dec 2 p 7; Dec 9 p 9; Dec 23, 30 p 9; Built Potost, Oct 11 p 27
Built All Potost, Oct 9, 14 p 186*
Built All Potost

North American Car Corp.:

Pneumatic Unloading Device, Sept 9 p 33*
Torco Oil Div. Formed, Sept 2 p 36
North American Phillips Co., Inc.: TV Camera, Aug. 19 p 34*
Northeast Airlines, NY-Florida Route Taken Away from, Aug 12 p 40
Northern Pacific:
80th Anniversary of Mainline, Sept 9 p 40
Fast Freight Service to Coast, Oct 26 p 56
Northwestern University Transportation Center:
Flaherty, W. C., Succeeds F. M. Kreml, July 15
p 44

Pricing Strategy Seminar, July 29 p 71 Nuclear (See Atomic)

Oakite Products, Inc.:
Foam Washer, Aug 5 p 33*
Fank Cleaning Unit, Oct 21 p 34*
Oklahoma City-Ada-Atoka Purchase by T&P; Resale
to AT&R Recommended by ICC Examiner, Nov 11
p 11
Olin Mathieson Chem. Corp.: Fasteners, July 1 p 33*
Onan Diesel-Electric Generating Plants, Aug 19 p 33*;
Dec 9 p 49*
Operating Economies:
Air Dryers Cut Costs on N&W, Aug 19 p 28*
Engineering Spotlighted as Profit-Making Area, Oct 21 p 10
Operating Efficiency: ACL New Station Facilities Promote, Aug 12 p 20*
Operating Efficiency: ACL New Station Facilities Promote, Aug 12 p 20*
Operating Studies:
How PRR and Reading Use m-u Cars, Sept 2 p 24*
PEAT Train Classification Plan, Oct 7/14 p 194
Toronto Subway, Sept 2 p 20*
Operating Linions: Labor-Management Dispute on
Work Rules, July 29 p 20
Operating Unions: Labor-Management Dispute on
Work Rules, July 8 p 9*; July 15 p 9*, p 467;
July 22 p 9, p 367; President's Plan for Settling,
July 29 p 9*; Aug 5 p 26, p 427; Aug 12 p 9; Aug
19 p 8, p 17, p 31; p 427; Aug 26 p 9, p 70; Goes
to Arbitration, Sept 2 p 9; Sept 9 p 7, p 10, p 381;
Sept 16 p 36*; Board Members, Sept 23 p 36*;
Hearings, Sept 30 p 70; Nov 11 p 9*; Nov 25 p 9*;
Award Filed, Dec 2 p 9; Dec 9 p 42; Dec 16 p 9;
Order of Railway Conductors & Brakemen:
Dispute with Pullman Co. Settled, Dec 16 p 10
Will Not Challenge Work Rules Arbitration Settlement, Dec 16 p 9
Organization of Railroads: StL-SF Divided Into Three
Districts, Sept 2 p 32
Ortner Freight Car Co.: L&N 7000-Cu. Ft. WoodChip Cars, Oct 28 p 24*
Ottaw Road Tests Made by AASHO, Oct 7/14 p 168
Outlet, ACF Pneumatic, July 15 p 37*

p

Pacific Coast Shippers Advisory Board Meeting, Sept 30, p 62*
Pacific Great Eastern Extension to Fort St. James, July 22 p 36
Pacific Intermountain Express: Interview with A. S. Gilkbarg, Oct 28 p 13*
Paint Spray Unit, Gray Portable, Sept 2 p 30
Pallet Liffer; Cady Metal Fabricating, Nov 25 p 97
Pallet Liffer; Cady Metal Fabricating, Nov 25 p 97
Pallet Liffer; Copperloy Corp., Nov 25 p 97
Pallet Truck; Crown Controls Corp., Aug 26 p 67*
Pan American Railway Congress:
Loomis Party Returns by Train, Nov 18 p 32*
Meeting in Mexico City, Oct 7/14 p 186*; Oct 28
p 58; Report, Nov 4 p 13*; Nov 11 p 27; Dec 16
p 34*
More Coordination of Rail Services Proposed, Nov

More Coordination of Rail Services Proposed, Nov 11 p 27; Dec 16 p 34*

More Coordination of Rail Services Proposed, Nov 11 p 27; Dec 16 p 34*

Panels, Polyurethane, Used in AT&SF Mechanical Refrigerator Cars, July 1 p 13*

Passenger Business:

CN Woos the Motorist, Sept 23 p 9*

C&O Moves Louisville Station, Makes Money, July 15 p 29*

CMSTP&P Expands Use of Bus Links, Aug 12 p 30

Coach Occupancy Rate in 1962, July 22 p 7

Decline in 1962, Aug 19 p 40

NY Area RRs Promote Off. Peak Travel, Dec 16 p 32

PSIC Riding High, Oct 21 p 21

Reading "Operation Northeast", July 1 p 40

Passenger Fares:

AT&SF to Cut Fares 20%, Nov 25 p 10

B&M Commuter Experiment, July 29 p 71

CN Charge-a-Trip and Car-Go-Rail, Nov 11 p 40

CN Extends Red, White and Blue, Sept 23 p 9*

C&WI Commuter Fares Increased, July 22 p 36

Coded Collection Systems, July 1 p 22; Aug 5 p 20

Collection Systems for San Francisco, Sept 23 p 52

Group-Travel Fares Cut, July 1 p 40; July 8 p 7

NYC Proposes Zone Commuter Operation, Dec 16

P 48

Passenger Service:

NYC Proposes Zone Commuter Operation, Ever 10 p 48
Rail, Air and Bus in 1962, Dec 16 p 10
Passenger Service:
CN Coach Reservation Pian, July 15 p 44
CN Woos the Motorist, Sept 23 p 9*
Passenger-Piggyback; DeRGW, Aug 26 p 7
Save US from Crepe-Hangers!, Nov 25 p 106f
Suburban Service: (See also Mass Transport; Rapid
Transit; Names of Cities)
CB&Q Push-Pull Trains, Dec 23/30 p 7
Course Offered by NY University, Sept 16 p 40
How PRR and Reading Use New Cars, Sept 2 p 24*
NYC Proposes Zone Operation, Dec 16 p 48
NYNHÄH Seeks Boston Service Cuts, Dec 9 p 39
Park-and-Ride Plan in Boston, Sept 9 p 40

Passenger Services: (Continued)

assenger Services: (Continued)
Suburban Services: (Continued)
Plea for Balanced Transportation, Dec 2 p 23
Reading "Operation Northeast", July 1 p 40
assenger Stations (See Stations, Passenger)
assenger Traffic (See Passenger Business)
EAT Train Classification System, Oct 7/14 p 194
tennsylvania.

Passenger Traffic (See Passenger Busines)
PEAT Train Classification System, Oct 7/14 p 194
Pennsylvania:
Brake Shoe Tests, Aug 26 p 31*
Buckeye Pipeline Stock Acquired, Dec 9 p 10
Buys Office Building in Philadelphia, Aug 5 p 40
Cars, Converted Reclining Seat, Oct 21 p 40
Cars, Sulverliner'' Commuter, July 15 p 44
Conway Yard Improvements Planned, Nov 11 p 40
Dividend Doubled, Dec 9 p 10
Executive Changes, July 1 p 7; July 6 p 32*
How New Commuter Cars are Used, Sept 2 p 24*
Lithcote Corp. Buys Paint Shop, Nov 16 p 22*
Locomotives, New Electric, July 29 p 72
Merger Hearing Statistics, Aug 26 p 10
N&W Neutralization Plan Opposed, Nov 25 p 66
Off-Peak Passenger Travel Promoted, Dec 16 p 32
'Operation Beaver' Clean Up, Nov 25 p 65; Dec 9p 56*
Outlook for 1963, July 22 p 23
Saunders, S. T., Named Chairman, July 1 p 7
Station at New York, Dismantling of, Oct 28 p 56;
Nov 25 p 65*
Symes, J. M., Retires, Oct 7/14 p 191*
Train Discontinuance Cases, July 1 p 40; Nov 4 p 44
Truc-Train Service Improvements, Sept 16 p 40
Pennsylvania-Reading Seashore Lines: NSC Safety
Award, Aug 19 p 40
Pennsylvania Station at New York, Dismantling of,
Oct 28 p 56; Nov 25 p 65*
Pooria & Eastern Protests Delisting of Stock on
NYSE, July 15 p 7
Per Diem:

Peoria & Eastern Protests Delisting of Stock on NYSE, July 15 p 7
Per Diem:

AAR Car-Ownership Study, July 1 p 36; Nov 4 p 10; Dec 23/30 p 14
Incentive Rates Bill, July 1 p 36 (Hearings); Nov 18 p 7; Nov 25 p 10
New System Effective Jan 1, 1964, Nov 4 p 10
Perishable Handling:
Bananas go TOFC, Guatemala to U. S., Nov 11 p 38; Nov 25 p 63*
CB&Q Guarantees Arrival Times, Sept 16 p 40
PERT Pays Dividends on Norfolk Southern, Aug 5 p 37
Philadelphia Commuter Service, New, SEPACT to Operate, Oct 7/14 p 200
Philadelphia Electric Co.: Low Rates Attributed to Unit Coal Trains, Sept 16 p 7
Philadelphia Passenger Service Improvement Corp.: Business Increased in 1962, Oct 21 p 21
Cars, 'Silverliner', 'in Service, July 15 p 44
How PRR and Reading Use New Cars, Sept 2 p 24*
Philadelphia-South Jersey Rapid Transit Line, July 1
p 18
Philadelphia Transit Study Task Force Report, Aug 5 p 17
Piggyback (See Trailer-on-Flat-Car Service)
Pipelines:
Right of Eminent Domain, Bill to Grant, Sept 2 p 36

Pelines: Right of Eminent Domain, Bill to Grant, Sept 2 p 36

Piggyback (See Trailer-on-Flat-Car Service)
Pipelines:
Right of Eminent Domain, Bill to Grant, Sept 2 p 36
Solids Via, July 22 p 18
Technological Developments, July 22 p 18
Pitsburgh to Test 'Skybus' Plan, July 1 p 25*
Plant Marketing Technique Used by B&O, July 8 p 30
Plasser Ry, Maint. Corp.:
Production Tamper, Sept 9 p 34*
Tamper Works Through Switches, Dec 2 p 18*
Plastic End Units on CTA Cars, Aug 5 p 18*
Plastic End Units on CTA Cars, Aug 5 p 18*
Plastic Products:
Battery Pads, July 1 p 33*
Cargo Control System, Nov 25 p 98*
Cushioning Material, Oct 28 p 50*
Fiber Glass Sheet, July 22 p 30
Nylon Fabric to Protect Sait, Dec 23/30 p 34*
Polyurethane Panels in AT&SF Mechanical Refrigerator Cars, July 1 p 13*
Plastic Train Developed in Germany, July 15 p 7
Plastics Competitive Rates Case Reopened by ICC,
Sept 2 p 10; Sept 23 p 10
Plywood Flooring, Nov 25 p 98
Pole, Old Antenna, Puts IC on Beam, Sept 23 p 44
Pool of Covered Hopper Cars Proposed, Sept 16 p 40
Pooling of Freight Cars; Study Being Made by AAR,
Dec 23/30 p 14
Port Authority Trans-Hudson Corp.: Car Designs Submitted to, July 1 p 20*; Bidders Asked to Amend,
Sept 2 p 19; Bids Re-submitted, Nov 18 p 16; Nov
25 p 104
Port Differentials Case, Supreme Court Denies Rehearing of, July 8 p 36
Port of New York Authority:
Car Designs Submitted to PATH, July 1 p 20*; Bidders Asked to Amend,
Sept 2 p 19; Bids Re-submitted Nov 18 p 16; Nov
25 p 104
Cars Leased to LI, Aug 5 p 13*
World Trade Center; Supreme Court Dismisses
Action Against, Nov 18 p 16
Power Supply:
Motor Trucks to Provide Emergency Power at CNT
Microwave Stations, July 8 p 20
Onan Diesel-Electric Generating Plants, Aug 19
p 33*; Dec 9 p 40*
Trailer-Mounted Boiler Plants Tested, Nov 11 p 40
Preso, Inc.: Load Divider, Oct 28 p 50*
Presence Detectors Aid in Switching, July 15 p 16
President Kennedy's Plan for Settling Work Rules
Dispute, July 29 p 3*, Aug 5 p 26, p 42; Aug 12

President Johnson a Mass Transport Supporter, Dec 9 p 40
President Kennedy's Plan for Settling Work Rules
Dispute, July 29 p 9*; Aug 5 p 26, p 42†; Aug 12 p 9; Aug 19 p 8; Aug 26 p 9, p 70; Sept 2 p 9; Sept 9 p 38†
President Kennedy's Transportation Program, Aug 12 p 9; Oct 7/14 p 148; Oct 21 p 40; Oct 28 p 10; Nov 18 p 31; Dec 2 p 10, p 38†; Dec 23/30 p 10
Preventive Maintenance for Radios; D&RGW, Nov 25 p 41

Preventi p 41 Prices: ces: Material Price Index, July, Aug 26 p 10; October, Dec 16 p 10 Pricing: (See also Rate Making)
Pitfalls for Careless Rate-Makers, Dec 9 p 52
Problems are Critical, Nov 18 p 19*, p 42†
Strategy Seminar at Northwestern, July 29 p 71
Private Transportation:
New Private-Carriage Law Urged, July 29 p 31
(See also Gray Area Transportation)
Program Evaluation and Review Technique Used by
Norfolk Southern, Aug 5 p 37
"Public Image" of the RRs: Save Us from CrepeHangers!, Nov 25 p 106†
Puget Sound-Alaska Van Lines, Hydro-Train Barges
Operated by, July 29 p 71; Sept 23 p 52
Puget Sound Regional Transportation Study, Oct 21 p 19
Pullman Company:

Pullman Company:
Assessment and Tax Before and After Sale of Richmond Shops, Dec 9 p 28
Settlement of BSCP Dispute, Nov 11 p 34; Dec 23/30

Settlement or BSC.P. Dispute, Nov 11 p 3*; Dec 20/30 p 40
Settlement of ORC&B Dispute, Dec 16 p 10
Pullman-Standard:
ACL 135-Ton Covered Hopper Car, Dec 23/30 p 31*
Car Designs Submitted to PATH, July 1 p 21*
CTA Orders Air-Conditioned Cars, July 1 p 20*;
Plastic End Panels, Aug 5 p 16*
Hydroframe-60 Cars Called Safe by ICC, Nov 25 p41
Largest Single Order for Covered Hopper Cars, Sept 23 p 5

Largest Single Order for Covered Hopper Cars, Sept 93 p 5
LI High-Speed Coaches, Aug 5 p 13*
L&N Bulkhead Flat Cars, Nov 25 p 76*
Order Backlog, Dec 16 p 48
urchases:
Estimate for 1963, Dec 23/30 p 9
Estimate for 1964, Oct 21 p 17
First Three Months, July 15 p 39; Four Months, Aug. 5 p 35; Five Months, Suly 15 p 39; Four Months, Oct 21 p 35; Seven Months, Nov 11 p 35
Trailer/Container Projections to 1967 and 1970, Aug 26 p 20

17allet/Container Folgetonis 4.26 p 20 pg. 20 pg. Pyke, Bert, Limited; Switch Broom, Sept 16 p 34* Pyle-National Circuit Controls, Aug 5 p 33* Pyle-National Floodlight, July 15 p 37*

Quill Has Smug Company, Nov 4 p 46†

REA Express:

Cancellation of Reduced Rates on Containerized Shipments Recommended by ICC Examiner, Aug 5 p 40
Container Service to Japan, Sept 9 p 40
Emergency Preparedness Pact, Aug 19 p 7
Key-Point Terminals, July 29 p 71
Unit-Haul Container Plan Expanded, Nov 11 p 40
REA Leasing Corp.: Membership, Sept 9 p 5; Nov 18 p 40
Radio:
Crossing Gates Controlled by; CV, Sept 30 p 32*
GRS One-Frequency Control System, Sept 30 p 64
Lan to Control Cab Signals by, July 29 p 41
Motorola Portable Two-Way, Nov 18 p 34*
Old Pole Puts IC on the Beam, Sept 23 p 44
Preventive Maintenance on D&RGW, Nov 25 p 41
Split-Channel Operation, RRs Adopt, Oct 21 p 36
Rail:
Effect of Heavy Freight Cars on, Dec 2 p 11

Rail:

Effect of Heavy Freight Cars on, Dec 2 p 11

USS Facilities for Heat-Treating Rails for Use on
Heavy-Duty Curves, Aug 12 p 36*

Welded:

AT&SF 'Glues' Joints, Dec 9 p 19*
Rack Cars for; GN, July 15 p 14*
RMC Equipment for Laying, July 15 p 38*
Rail-Highway Track Equipment, Oct 7/14 p 88*
Rail-Highway Trucks Leased by Reading, Oct 7/14 p
188

183
Rail-Highway Units (Roadrailers) Ordered by C&O,
July 1 p 35
Rail Joints 'Glued' by AT&SF, Dec 9 p 19*
Railroad Families, Aug 19 p 29; Sept 16 p 26
Railroad Management Institute, 18th, Dec 2 p 36
Railroad Mulagement Institute, 18th, Dec 2 p 36
Railroad Public Relations Association: Officers, Oct
21 p 40
Railroad Retirement Account: Settlement of Military
Service Credits Controversy Proposed, Aug 19
n 10

Service Credits Controversy Proposed, Aug 19 p 10 Railroad Retirement Act Amendments, Management-Labor Compromise on, July 29 p 71; Aug 19 p 10; Aug 26 p 10; Oct 21 p 7 Railroad Retirement Board: T. M. Healy Reappointed to, Aug 26 p 10 Railroad 'Swiffles', Oct 28 p 26; Nov 18 p 26 Railroad Unemployment Insurance Act Amendments, Management-Labor Compromise on, July 29 p 71; Aug 12 p 10; Aug 26 p 10; Oct 21 p 7 Railroading After Hours with Jim Lyne, July 1 p 27; July 8 p 27; July 15 p 33; July 22 p 26; July 29 p 59; Aug 5 p 27; Aug 12 p 32; Aug 19 p 29; Aug 26 p 36; Aug 5 p 27; Aug 12 p 32; Aug 19 p 29; Aug 26 p 48; Sept 2 p 12; Sept 9 p 24; Sept 16 p 26; Sept 23 p 49; Sept 30 p 54; Oct 7/14 p 15; Oct 21 p 36; Oct 28 p 26; Nov 4 p 28; Nov 14 p 25; Nov 18 p 26; Nov 25 p 70; Dec 2 p 22; Dec 9 p 45; Dec 16 p 30; Dec Railway Age:

23/30 p 21
Railway Age:
Daily Issues for ARPE, July 29 p 70*
Index to Volume 154, Aug 28 p 74
Index to Volume 154, Aug 28 p 74
Industrial Development Survey, Sept 23 p 18*
Keeping Informed with, Oct. 7/14 p 821
Two-in-for Issues, Oct. 7/14 p 200; Dec. 16 p 48
Volume Number of Oct. 7/14 Issue, Oct. 21 p 40
Railway Labor Act:
Budd, John, on, Dec. 23/30 p 17
Dennis, C. L., on, Sept 9 p 17
Railway Labor Executives Association:
Compromise with AAR on Amendments to Railroad
Retirement and Unemployment Insurance Acts,
July 29 p 71; Aug 19 p 10; Aug 26 p 10; Oct. 21 p 7
Kefauver Memorial Library Fund, Aug 26 p 74.

Railway Labor Executives Association: (Continued) Seeks Court Denial of Southern Acquisition of CofGA, July 22 p 7
Seeks End of Exemption of the Alfred I. DuPont Estate from Bank Holding Company Act, July 22 p 36
Supports Minimum Rates Bill, Sept 23 p 7
Railway Maintenance Corp.
Boltmaster Speeds E-L Track Work, July 22 p 27*
Equipment for Laying Welded Rail, July 15 p 38*
Railway Progress Institute:
Annual Meeting; Officers, Oct 7/14 p 147; Oct 21 p
18

portation Act of 1958: Candy Rates That Were Opposed by Seatrain Lines and Sea-Land Service, Inc., Upheld by ICC, Nov

Candy Rates That were upposed by scrattin butes and Sea-Land Service, Inc., Upheld by ICC, Nov 11 p 10
Destructive Competition Determined by ICC, Sept 30 p 10
self-land Rate Case Reopened by ICC, July 1 p 40
Interview with R. H. Heilman, Sept 30 p 15*
Minimum Rates Legislation (See Minimum Rates
Legislation)
Pan American Railway Congress Papers, Nov 4 p 14;
Dec 16 p 34*
Pittalls That U. S. Roads Have Encountered, Nov 18 p 19*, p 42†
Pricing—Walking a 'Narrow Path', Dec 9 p 52
Pricing—Walking a 'Narrow Path', Dec 9 p 54
Pricing—Walking a 'Narrow Path', Dec 9 p 54
Pricing—Walking a 'Narrow Path', Dec 9 p 54
Pricing—Walking a 'Narrow Path', Dec 9 p 58
Pricing—Walking a 'Narrow Path', Dec 9 p 58
Pricing—Walking a 'Narrow Path', Dec 3 p 58†
Reform Recommended by A. F. Arpaia, Oct 28 p 58†
Reform Recommended by A. F. Arpaia, Oct 28 p 58†
Reform Recommended by A. F. Arpaia, Oct 28 p 58†
Rate of Return; 12 Months Ended June 30, Sept 9 p 8
Rates, Freight.

Rates, Freight: C&EI Joint Rail-Water Coal Rate Cases, July 29 p

Rates, Freight:

C&EI Joint Rail-Water Coal Rate Cases, July 29 p
69; Dec 9 p 40
C&EI Joint Rail-Water, on Ex-Rail Grain, Approved by ICC, July 8 p 35
East-West Divisions Case, July 8 p 36
Grain, on Southern; ICC Reverses Division 2 Decision, July 22 p 32; July 29 p 74; Aug 12 p 31; Aug 19 p 31; Aug 26 p 7; Sept 30 p 76; Oct 7/14 p 149
NYNH&H All-Commodity Rates on Straight or Mixed Shipments, Court Sets Aside ICC Order on, Aug 5 p 40; Aug 12 p 30; Nov 18 p 10; Nov 25 p 10
Official-Southern Divisions Case, July 22 p 10
Pitalls That U. S. Roads Have Encountered, Nov 18 p 19*, p 42*
Plastics Competitive Rates Case Reopened by ICC, Sept 2 p 10; Sept 23 p 10
Port Differentials Case, Supreme Court Denies Rehearing of, July 8 p 36
Section 22 Rates, ICC Has No Power to Condemn, Sept 16 p 10
Transcontinental Divisions Case, July 8 p 36
Weight-Distance Rates Urged, Dec 16 p 34*
Weight-Distance Rates Urged, Dec 16 p 34*
Raytheon Co. Seminar in NYNH&H Car, July 15 p 16*
Reading:
Capital Expenditure Program, Sept 16 p 13*
How New Commuter Care are Used, Sept 2 p 24*
"Operation Northeast" Traffic Increases, July 1 p
40
Perlman, A. E., to Serve on Board, Sept 2 p 7

Perlman, A. E., to Serve on Board, Sept 2 p 7
Rail-Highway Trucks Leased by, Oct 7/14 p 183
Real Estate Deals: (See also dir Rights)
B&O Leases Part of Locust Point Marine Terminal,
July 15 p 44
B&M Sells Some Boston Properties, July 22 p 36
PRR Buys Philadelphia Office Building, Aug 5 p 40
Refrigeration Units:
Cooltainers Used for Banana Shipment, Nov 11 p 38;
Nov 25 p 63*
Cosmodyne Nitrogen, Aug 26 p 67*
Regulation:

Cosmodyne Nitrogen, Aug 25 p 01* Regulation: NAS-NRC Report on the RRs, Oct 7/14 p 152 Needed—More Sam Flints, Sept 30 p 76† Regulatory Agency Heads Meet with President Johnson, Dec 9 p 56

Regulatory Agency Members, TAA Recommends Pay Increase for, Oct 28 p 56 Regulatory Policy of ICC, Change in, Dec 9 p 58† Relay, Current; Joy Mig. Co., July 22 p 30* Relay, Directional; Servo Corp. of America, Dec 2 p 30*

Relay, Directional; Servo Corp. of America, 1860 a p 30* Relay, Flasher; Gen. Ry. Signal Co.. Dec 9 p 49* Remington Rand Sched-U-Graph, Aug 5 p 22* Research: Savings to RRs Due to AAR Research Center, Oct 7/14 p 162
U. S. Dept. of Commerce Transportation Program, Aug 12 p 10; Sept 9 p 12
What Next for?, Oct 7/14 p 198
Research & Development Center, New, Planned by CN, July 29 p 46

Research & Development Center, New, Planned by CN, July 29 146
Research Center of AAR a Profitable Investment, Oct 7/14 p 162.
Research Institute Proposed by NAS-NRC, Sept 16 p 7
Revenues and Expenses: Quarterly Figures for Individual Roads, Sept 16 p 30, Dec 9 p 32
Revenues Lost to Competing and Exempt Carriers, Sept 30 p 76
Revenues, Rail, Air and Bus, in 1962, Dec 16 p 10
Revenues, Transportation, in 1962, Aug 5 p 7
Review of Railway Developments in 1963, Dec 23/30 p 9

Review of Railway Developments in 1963, Dec 23/30 p 9
Rivet Gun, Townsend, July 22 p 30*
Roadbed Research for the Future, Oct 7/14 p 198
Roadmasters & Maintenance of Way Association:
Meeting at ARPE, Oct 21 p 10
Roadrailer Units Ordered by C&O, July 1 p 35
Roller-Ball Bearing; American Brake Shoe Co., Nov 18 p 33*
Roller Bearings:
Cars Equipped with July 1 p 36

Roller Bearings:

Cars Equipped with, July 1 p 38

Timken's Millionth 'AP' Bearing, Aug 26 p 32*

Royal Commission on Transportation in Canada: Legislation to Implement Report, Dec 16 p 48

Rubber Lining for Tank Cars; B. F. Goodrich Co., Aug
26 p 67:

Russia (See Union of Soviet Socialist Republics)

Rutland, Vermont Buys a Part of, Sept 2 p 36; Sept 23

p 7; Dec 23/30 p 7

SAFEGE Monorail System; AMF Licensed to Market in U. S., July 29 p 68
Safety Awards:
Harriman, Sept 16 p 40
NSC Public Safety Activities, Aug 26 p 74
NSC Public Safety Activities, Aug 26 p 74
NSC Rallroad Employees, Aug 19 p 40
Safety on RRs Steadily Improving, Nov 11 p 39
St. Lawrence-Hudson River Waterway, Oct 21 p 40
St. Lawrence Seaway;
Toll Structure Under Review, Sept 9 p 40
Traffic During 1963 Season, Dec 9 p 56
St. Louis Car Co.: Car Design Submitted to PATH,
July 1 p 21*
St. Louis-San Francisco:
Barge Line Application Dismissed by ICC, July 15

Barge Line Application Dismissed by ICC, July 15 p

Barge Line Application Dismissed by ICC, July 15
44
Reorganized Into Three Districts, Sept 2 p 32
Seeks to Buy Northeast Oklahoma, Aug 5 p 40
To Transfer Employees, Oct 21 p 7
Salaries Over \$25,000 in 1962, Sept 23 p 10
Sales and Operating Department Coordination, Pros
and Cons of, July 29 p 20
Sales Campaign for LCL Service; ACL, Oct 28 p 46*
Salesmen, How Shippers Rate, July 29 p 26
Salesmen, Training of, July 29 p 21, p 26
Salesmen, Training of, July 29 p 21, p 26
Salesmen, Training of, July 29 p 21, p 26
Salesmen, Training of, July 29 p 31, p 26
Salesmen, Training of, July 29 p 31, p 26
Salesmen, Training of July 29 p 32, p 26
Lake, Garfield & Western: J. E. Hogle Named
President, Dec 2 p 35
San Francisco Bay Area Transit District:
Estimated Savings for Area Residents, Nov 4 p 18
Fare Collection System for, Sept 23 p 52
Land Surveying Program, Sept 9 p 40
Reasons for Building Transit System, Oct 21 p 25
Staff Appointments, Aug 5 p 17, p 32; Sept 2 p 19, p 27

Screwariver, insulated; Mathias Klein & Sons, Aug 19 p 34
Scullin Steel Co.: Deck Support Casting, Oct 21 p 33*
Sea-Land Rate Case Reopened by ICC, July 1 p 40
Sea-Land Service, Inc.:
Appeals Plastics Competitive Rates Case, Sept 2 p 10; ICC Reopens, Sept 23 p 10
Original Rate-Competitive Case Reopened by ICC, July 1 p 40

July 1 p 40 RR Water-Competitive Rates on Candy Upheld, Nov

RK water-Competitive Rates on Candy Upheld, Nov 11 p 10 Seaboard Air Line:
Cars Tailored to Shippers' Needs, Dec 23/30 p 35 Facilities at Hialeah to be Improved, Dec 9 p 7 May Expand TOFC Mail Service, Sept 23 p 48 Merger with ACL Approved, July 29 p 46; Dec 23/30 p 24

Outlook for 1983 July 23 p 32 p 24 Outlook for 1963, July 22 p 23

Seatrain Lines:
Original Rate-Competitive Case Reopened by ICC,
July 1 p 40

RR Water-Competitive Rates on Candy Upheld, Nov RR Water-Competitive Rates on Candy Upheld, Nov 11 p 10 U.S. Freight Co. Seeks Control of, July 22 p 10 Seattle Area Transportation Facilities Studied, Oct 21 p 19 Seattle Monorall's Future Undecided, Oct 21 p 20 Segregated Railroads, The, Dec 23/30 p 21

Senate Committee on Appropriations Directs ICC to Provide Sufficient Inspector Personnel to Assure the Movement of Cars, Nov 25 p 10
Senate Committee on Commerce:
Freight Car Shortage Subcommittee: Hearings on Incentive Per Diem Bill, July 1 p 36
Surface Transportation Subcommittee: Hearings on Minimum Rate Bill, Sept 30 p 76; Oct 7/14 p 148; Nov 4 p 44
Servo Corporation of America:
Directional Relay, Dec 2 p 30*
Hotbox Detector, Nov 18 p 34
Wins Patent Infringement Suit, July 22 p 36
Ship Container Corp.: "Tilt' Container, Sept 23 p 45*
Shippers:

Wins Patent Infringement Suit, July 22 p 36
Ship Container Corp.: 'Tilt' Container, Sept 23 p 45*
Shippers:
Aid in Curbing Bootleg Truckers, July 8 p 12*
Evans 'Perfect' Box Cars Pay Off, Dec 2 p 12*
EVans 'Perfect' Box Cars Pay Off, Dec 2 p 12*
EVans 'Perfect' Box Cars Pay Off, Dec 2 p 12*
EVans 'Perfect' Box Cars Pay Off, Dec 2 p 12*
EVans 'Perfect' Box Cars Pay Off, Dec 2 p 16*
Start to Hedge on Strike-Talk, July 22 p 9
Traffic Polls, July 29 p 26; Aug 26 p 9; Sept 30 p 47;
Oct 28 p 43; Nov 25 p 62; Dec 23/30 p 30
Freight Car Design Features, Sept 30 p 47
Increase in Demurrage Charges, Sept 16 p 36; Oct 28 p 43
Increased Use of TOFC, Nov 25 p 62
Rating of RR Salesmen, July 29 p 26
Threatened Rail Strike and Compulsory Arbitration, Aug 26 p 9; Sept 2 p 36*
Shippers' Car Line: Electrically-Heated Tank Cars, Sept 16 p 33*
Shippers Regional Advisory Boards:
Freight Car Loading Estimates, July 1 p 10; July 22 p 22; Sept 30 p 69; Dec 23/30 p 30
Organization and Purposes of, Oct 7/14 p 166
Shock Simulator; Gaynes Eng. Co., Dec 2 p 30
Shoe, Binkley Landing Gear, July 29 p 58*
Shop-Fly Track, Explanation of, July 29 p 59
Shopmen Circulate Strike Ballot, Nov 11 p 7
Shops:
Air Brake, at Waycross; ACL, July 8 p 16*

Shopmen Circulate Strike Ballot, Nov 11 p 7 Shops:
Air Brake, at Wayeross; ACL, July 8 p 16*
Lithcote Corp. Buys PRR Paint Shop and C&NW Roundhouse, Nov 16 p 22*
Shunk Mfg. Co.: Steel Coil Skid, Oct 28 p 50
Skgnal Flasher Relay; Gen. Ry. Signal Co., Dec 9 p 49*
Signal Rule Changes Proposed by ICC, Sept 23 p 52
Signaling:
Automation Steps Ahead, Oct 7/14 p 107*
Changes to Enable Rail Lines to Handle Rapid
Transit, Dec 2 p 25*
In-Band; Lenkurt Elec., Aug 19 p 34*
Standardization Urged in, Oct 21 p 16*
VF Line Overlay; Transcontrol Corp., Dec 16 p 41*
Signals, Cab, Radio Control of; L&N, July 29 p 41
Signode Steel Strapping Co.: Strapping Station, Nov 4 p 38*
Chall Standard Stall Cot 23 p 10

Signode Steel Strapping Co.: Strapping Station, Nov 4 p 38**
Sixid, Shunk Steel Coil, Oct 28 p 50
Sloan Valve Co.: Angle Cock, Nov 4 p 37*
Smith, A. O. Corp.: Interview with R. H. Heilman on the Future of the Railways, Sept 30 p 15*
Smith, G. W., & Sons: Spray Lubricant, Aug 12 p 33
Snap-Tite, Inc.: Quick-Disconnect Couplings, July 1 p 34*
Snow and Ice Detector. Fronting Floatman

Snow and Ice Detector; Frontier Electronics, Sept 9

Snap-Tite, Inc.: Quick-Disconnect Couplings, July 1 p 34*
Snow and Ice Detector; Frontier Electronics, Sept 9 p 33
Snow-Fighting Strategy at C&NW Proviso Piggyback Plaza, Dec 23/30 p 21
Solid State Code Control System; US&S, Nov 18 p 34*
Solid State Techniques, Development of, Oct 7/14 p 108; Oct 21 p 17
Solid State Techniques, Development of, Oct 7/14 p 108; Oct 21 p 17
Solid State Techniques, Development of, Oct 7/14 p 108; Oct 21 p 17
Sol Line:
Freight Service Centers Proposed, Sept 2 p 32
Hotbox Detectors Being Installed, Sept 23 p 52
Merger Study with CGW Called Off, Nov 18 p 7
Train Discontinuances, Dec 16 p 48
Southeastern Pennsylvania Transportation Authority Created, Sept 2 p 19
Southeastern Pennsylvania Transportation Compact: HHFA Mass Transport Grant, July 1 p 18
Philadelphia Commuter Service, Oct 7/14 p 200
Southern Pacific:
Control of WP by AT&SF Recommended by ICC Examiner, Sept 16 p 9; Nov 4 p 10; Nov 25 p 67; Dec 23/30 p 40
Electronic Crossing Control, Oct 21 p 17
Savings for Shippers, Sept 30 p 63*
Seeks Dismissal of C&NW Application to Control
CRI&P, Aug 12 p 77
To 3pend \$90 Million for Equipment, Dec 2 p 31
Southern Railway:
CNO&TP 'Rathole' Div. Improved, July 22 p 13
Grain Rate Case; ICC Reverses Division 2 Decision, July 22 p 32; July 29 p 74; Aug 12 p 31; Aug 19 p 311; Aug 19 p 40; Nov 11 p 7
Marketing Techniques, July 29 p 23
RLEA Seeks Court Denial of CofGA Acquisition, July 22 p 17
Southland Mig. Co.: Journal Stop, July 1 p 33*

Marketing Techniques, July 29 p 23
RIEAS Seeks Court Denial of CofGA Acquisition, July 22 p 7
Wins RPI Golden Freight Car Award, Oct 21 p 18
Southland Mfg. Co.: Journal Stop, July 1 p 33*
Spark Arrester; Super Co., Nov 4 p 37*
Speed King Mfg. Co.: Reclaiming Auger, Nov 4 p 37*
Speed King Mfg. Co.: Reclaiming Auger, Nov 4 p 37*
Speed King Mfg. Co.: Reclaiming Auger, Nov 4 p 37*
Speed King Mfg. Co.: Reclaiming Auger, Nov 4 p 37*
Speed King Mfg. Co.: Reclaiming Auger, Nov 4 p 37*
Speed King Mfg. Co.: Reclaiming Auger, Nov 4 p 37*
Sperty Rall Service: Four Million Miles of Track
Tested, Sept 30 p 60*
Sperty Rand Corp.; GN Univac III, Dec 9 p 42*
Spokane International: NSC Safety Award, Aug 19 p 40
Spray Applicator for Fiber Glass, Devilhins, July 22
p 29*
Spray Gun; Gray Co., Aug 12 p 34*
Spray Gun; Gray Co., Aug 12 p 34*
Spray Paint Unit; Gray Co., Sept 2 p 30
Springs, Truck, Crucible Steel Tests, Nov 11 p 26*
Stainless Steel Cars for NYCTA, July 1 p 25
Stainlord Research Institute:
Electronic Crossing Control, Oct 21 p 17
Rapid Transit Survey, Oct 21 p 21
To Make Technological Studies for BARTD, Aug 19
p 25

Star Forwarders, Inc.: Rail-Sea Container Service,
Oct 21 p 38
Station Names, July 8 p 27; July 15 p 33; July 22 p 28;
Aug 5 p 27; Aug 12 p 32; Aug 26 p 48; Noro 18 p 26
Stations, Passenger:
C&O Makes Money on Louisville Move, July 15 p 29*
LI to Build New Station at Islip, July 15 p 44
New Look on ACL, Aug 12 p 20*
NY World's Fair; Opened by LI, July 15 p 18
Pennsylvania at New York, Dismantling of, Oct 28
p 56; Nov 25 p 65*
Statistics:

Statistics:
Are the Railroads Rich or Poor?, Sept 9 p 30*; Oct
7/14 p 821

Nov 4 p 44

Are the Railroads Rich or Poor?, Sept 9 p 30*; Oct 7/14 p 82; EC Cuts Report Filing by RRs, Nov 4 p 44 ICC to Collect Piggyback and Container Traffic Figures, Dec 23/30 p 40 Ranking of Class I RRs in 1962, Sept 9 p 8 Steadman Container Systems Licensed to GATC, Dec 23/30 p 40 Steed Makers See Bigger Car Market, Dec 16 p 44 Stores Department of IC a Consistent Employee Suggestion Winner, July 29 p 59 Strapping Station; Signode Steel Strapping Co., Nov 4 p 36* Streeter Amet Electronic Weighing System, Sept 23 p 45* Streeter Amet Electronic Weighing System, Sept 23 P 45* Strick Trailers Tests Flexi-Vans in Rail-Truck-Ship

Streeter-Use Pricing Proposed, July 1 p 22*
Streeter Amet Electronic Weighing System, Sept 23
P 45*
Strick Trailers Tests Flexi-Vans in Rail-Truck-Ship-Service, July 8 p 24*
Strickland Transportation Co.: Use of IC Piggyback as Substituted Service Heid Uniawful, July 29 p 7
Strike Insurance Pact, Supreme Court Refuses to Review, Oct 21 p 7
Strike of FCC Non-Operating Unions, July 22 p 36;
Aug 26 p 7; Nov 18 p 32; Nov 25 p 104; Dec 23/30 p 40
Strike Provisions, Taft-Hartley Emergency; Bill to Apply to Disputes by Carriers Subject to Railway Labor Act, July 22 p 36
Strike-Talk, High Cost of, Aug 26 p 9
Strike the Railroads—Paralyze the Nation, Aug 19 p 17
Stromberg-Carlson 3-Line Telephone, Aug 12 p 33
Subsidies:
Aid to Airports, Aug 26 p 7
Bill to Deny Subsidies to Domestic Trunkline Air Carriers, July 29 p 72
Handout for a Paper Mill, Aug 19 p 311
Next Year's Waterway Battles, Dec 16 p 16*
Quill Has Smug Company, Nov 4 p 46†
Subsidizing Some Citizens at the Expense of Others,
Dec 16 p 50†
Transport—At Whose Cost?, Sept 23 p 54†
Subways:
Fort Worth Store Subway Successful, Sept 2 p 22*

Transport—At Whose Cost?, Sept 23 p 54†
Subways:
Fort Worth Store Subway Successful, Sept 2 p 22*
Montreal Gets More Money, Sept 2 p 19, p 31
Toronto, Operating Study, Sept 2 p 20*
USSR Extending Moscow System, Nov 4 p 44
Super Co.: Spark Arrester, Nov 4 p 37*
Supreme Court (See United States Supreme Court)
SURCOM, What's Ahead for, Nov 18 p 9*
Surface Communications, Inc.: What's Ahead for
SURCOM?, Nov 18 p 9*
Sweeper, American-Lincoln Power, July 29 p 66*
Switch Broom; Bert Pyke Ltd., Sept 16 p 34*
Switch Machine; American Brake Shoe Co., July 1 p 33*
Switching, Presence Detectors Aid, July 15 p 18
Switchmen's Union of North America to Explore
Merger Possibilities, Aug 12 p 40
Symington-Wayne Freight-Car Truck, Oct 21 p 34*

TFC Corp.: Delivery Bin Kit, Nov 16 p 33 Taft-Hartley Emergency Strike Provisions; Bill to Apply to Disputes by Carriers Subject to Railway Labor Act, July 22 p 36

Tampers:

Labor Act, July 22 p 36
Tampers:
Automatte, Exhibited at ARPE, Oct 7/14 p 87*
GN Tamps Turnouts Fast, Dec 2 p 18*
Plasser Ry, Maint. Corp., Sept 9 p 34*; Dec 2 p 18*
Tank for Dispensing Urethane Foam; United Process
Machy. Corp., July 22 p 29*
Tax Outrage:
Analysis of a, Dec 9 p 28
Basic Problems, Dec 9 p 23
Overassessment—a 24-State Breakdown, Dec 9 p 22
RRs Sometimes Win Court Cases, But Politicians
Often Have the Last Word, Dec 9 p 24
Some Expert Opinions, Dec 9 p 27
Special Report, Dec 9 p 21
What Can Be Done About It?, Dec 9 p 26
Tax Rebate Granted C&NW by Lake County, III., July
2 p 36
Tax Reductions for RRs in Illinois, July 22 p 36; Sept
2 p 7

rax reductions for KRs in Illinois, July 22 p 36; Sept 2 p 7

Teaching Machine Used by IC, July 8 p 23

Technological Challenge, The, July 22 p 16*

Telephone and Telegraph Equipment:
Audio Tone Units, Femco, Aug 19 p 33*

Automatic Dialer; ATAT, Nov 18 p 34

Compandor Unit; Lynch Comm. Systems, July 1 p 34*

Desk Keyboxes; R. W. Neill Co., Dec 16 p 41*

Dial Telephone-Data Transmission System; GN, Oct

7/14 p 110

Dial Telephones, Developments in, Oct 7/14 p 109

Electronic Switching Center; NYC, Nov 4 p 44

Interphones; AT&T, Nov 18 p 34

Monitor Recorder; Automatic Electric, Sept 9 p 33*

Pulse Code Unit; Moore Assoc., July 15 p 38*

3-Line Telephone, Stromberg-Carlson, Aug 12 p 33

Television Camera; North American Phillips, Aug 18 p

34*

Television Facilities at C&NW Proviso Piggyback

34*
Television Facilities at C&NW Proviso Piggyback Plaza, Dec 23/30 p 20
Temnessee Valley Authority: Sell the TVA?, Dec 16 p 50†
Terminal Handling: PEAT Classification Plan, Oct 7/14 p 194

Terminal Railroad Association of St. Louis; W. H.
Moore Elected President, Sept 2 p 27
Terminals, REA Express Key-Point, July 29 p 71
Texas & Pacific:
Jenks, D. B., Named President, Dec 9 p 7
Merger with MP Planned, Dec 9 p 7
Purchase of Three Roads Recommended by ICC
Examiner, Nov 11 p 11
Theft, How a Freight Forwarder Meets Problem of,
Oct 29 p 19; Nov 25 p 681
Thermon Mig. Co.: Heater Cement, Sept 23 p 45*
Thrall Car Mig. Co.:
Auto-Parts Cars; Ford Motor Co., Aug 19 p 14*
L&N Bulkhead Flat Cars, Nov 25 p 76*
Ticket Office at Chicago; CB&Q, Nov 18 p 16*
Ticket office at Chicago; CB&Q, Nov 18 p 16*
Ticket of CTA to Carry Ads, Aug 19 p 30
Ties: Need to Extend Service Life, Nov 11 p 40
Tile, Vinyl; Armstrong Cork Co., Nov 18 p 33*
Timken Folier Bearing Co: Millionth 'AP' Bearing
Produced, Aug 26 p 32*
Tolls for City Streets?, July 1 p 22*
"Tom Swiftle" Cags, Oct 28 p 26; Nov 18 p 26
Ton-Miles:
Estimate for 1963, Dec 23/30 p 9

Ton-Miles: Estimate for 1963, Dec 23/30 p 9

Estimate for 1963, Dec 23/30 p 9 Number Generated by Car Loadings (Weekly), July 1 p 35; July 15 p 39; July 22 p 31; July 29 p 67; Aug 5 p 35; Aug 12 p 35; Aug 19 p 35; Aug 26 p 69; Sept 2 p 31; Sept 16 p 35; Sept 25 p 47; Sept 30 p 71; Oct 21 p 35; Oct 28 p 51; Nov 4 p 39; Nov 11 p 35; Nov 18 p 35; Nov 25 p 99; Dec 9 p 51; Dec 16 p 43 Tools, Dies & Stamping Co.: Locomotive Speedom-eters, July 29 p 66* Toronto Studies Increase in Rail Facilities, Sept 2 p 36 Toronto Studies Increase in Rail Facilities, Sept 2 p 36

Toronto Subway; Operating Study, Sept 2 p 20° Townsend Rivet Gun, July 22 p 30°

Four Million Miles Tested by Sperry Rail Service,

Toronto Subway; Operating Study, Sept 2 p 20*
Track:
Four Million Miles Tested by Sperry Rail Service,
Sept 30 p 50*
GN Tamps Turnouts Fast, Dec 2 p 18*
Layout to Enable Rail Lines to Handle Rapid Transit,
Dec 2 p 25*
Shoo-Fly, Explanation of, July 29 p 59
Track Exhibit at ARPE, Oct 7/14 p 23*
Track Motor Car Order of ICC Assailed by RRs, July
8 p 10; Aug 12 p 40; Aug 19 p 40
Track Surfacing Automated; C&NW, Sept 2 p 33*
Track Work, Boltmaster Speeds; E-L, July 22 p 27*
Trading Stamps for Safety Slogans, July 29 p 72
Trading Stamps for Safety Slogans, July 29 p 72
Trading Stamps for Safety Slogans, July 29 p 72
Trading Stamps for Safety Slogans, July 29 p 72
Trading Stamps for Safety Slogans, July 29 p 72
Trading Stamps for Safety Slogans, July 29 p 72
Trading Stamps for Safety Slogans, July 29 p 72
Trading Capartment Coordination, Pros and
Cons of, July 29 p 20;
Tradice Polls, July 29 p 26; Aug 26 p 9; Sept 30 p 47;
Oct 28 p 43; Nov 25 p 62; Dec 23/30 p 30
Trailer Landing Gear, Binkley, Sept 23 p 46*
Trailer Manufacturers; Outlook for TOFC Equipment,
Aug 26 p 19*
Trailer-Mounted Boiler Plants Tested, Nov 11 p 40
Trailer Numerals and Letters; Kux Mfg., Nov 25 p 98
Trailer-on-Flat-Car Service: (See also Flext-Van
Service; Names of Companies Supplying Service;
Container Service
ACT. Ties New LCL. Plan to, Oct 28 p 46*
Bananas go TOFC, Guatemala to U. S., Nov 11 p 38;
Nov 25 p 63*
Car Loadings:
Fstimate for 1963, Nov 25 p 42; Dec 23/30 p 9
Estimate for 1964, Nov 25 p 43, p 62
First Six Months, July 22 p 22
New Record Established, Oct 7/14 p 200
Weekly, July 1 p 35; July 8 p 31; July 15 p 39; July
22 p 31; July 28 p 67; Aug 5 p 35; Aug 12 p 35;
Aug 19 p 35; Aug 26 p 69; Sept 2 p 31; Sept 9 p
35; Sept 16 p 35; Sept 23 p 47; Sept 30 p 71; Oct
7/14 p 183; Oct 21 p 35; Oct 28 p 51; Nov 4 p 39;
Nov 11 p 38; Nov 18 p 35; Nov 25 p 99; Dec 2 p
31; Dec 9 p 51; Dec 16 p 44; Dec 23/30 p 40
Mail Service, SAL May Expand, Sept 2 p 13:
Nov 25 p 43, p 46; Dec 16 p 48
Dec 25/30 p 10;
Passenger Train Piggyback (See Passenger Service

Rates: Sea-Land Rate Case Reopened by ICC, July 1 p 40
Rules to Govern; ICC Proposed Report, Sept 2 p 14
Shippers Plan Increased Use of, Nov 25 p 62
Ten Years of Steady Growth, Nov 25 p 44*
Trailer/Container Loads and Revenues for 1970
Estimated, Aug 26 p 19
Trailer-on-Ship Service (See Container Service)
Trailer Train Co.:
Cars in Service, Oct 21 p 40
Newell, J. P., Elected President, Oct 21 p 40
Number of RRs Belonging to, Sept 30 p 54
Trailers:
Equipment Design, Nov 25 p 52
Equipment Design, Nov 25 p 52
Routiners Showcase, Aug 26 p 22*
Nitrogen Refrigeration Container, Aug 26 p 67*
Production in 1962; Estimate for 1970, Aug 26 p 19, p 20

Production in 1962; Estimate 101 1910, Aug 26 p 20
Purchases Projected to 1967, 1970, Aug 26 p 20
RR-Owned or Leased in Service, Aug 26 p 20
Replacement of Box Cars Predicted, Aug 26 p 20
Trailmobile Steel, Nov 25 p 97*
Trailmobile Steel Trailers, Nov 25 p 97*
Trailmobile Steel Trailers, Nov 25 p 97*
Train Inspection Stations, Oct 7/14 p 109*
Training of Employees: Programs, Dec 2 p 36
IC Push-Button Teaching Machine, July 8 p 23
Marquardt Corp. Educational Program, Dec 16 p 471
P&S Div. Report on, Oct 7/14 p 127

Training of Employees: (Continued)
Raytheon Seminar in NYNH&H Car, July 15, p 16*
Retraining of Journeymen, Oct 28 p 47
Salesmen, Courses for, July 28 p 21, p 26
Top Officers Aid MP Trainees, July 29 p 54*
Trains: (See also Unit Trains)
C&NW '400'' Discontinued, July 29 p 72
CMSP&P 'YXL Special,'' Nov 25 p 13*
German Fed. Ry. Plans 125-mph Train, July 8 p 36
NYC ''World's Fair Specials,'' Nov 18 p 40
Plastic, Developed in Germany, July 15 p 7
USSR 100-mph Express, July 29 p 7
Transcontrol Corp.: VF Line Overlay, Dec 16 p 41*
Trans-Missouri-Kansas Shippers' Advisory Board:
Opposes Minimum Rate Bill, July 8 p 36
Specialized Car Revolution, Sept 30 p 69
Transport Prod. Corp.: Portable Ramp for Piggyback,
Dec 16 p 31*
Transportation Act of 1958:
Loan Guarantee Provisions (See Rate Making)
Transportation Act of 1963: Status of, Aug 12 p 9; Oct
7/14 p 148; Rewritten by House Commerce Committee, Oct 21 p 49; Oct 28 p 10; Nov 18 p 31
Transportation Association of America:
Amount Spent for Transportation in 1962, Oct 7/14 p 200
Pay Increases Recommended for Regulatory Agency

p 200
Pay Increases Recommended for Regulatory Agency
Members, Oct 28 p 56
Transportation—At Whose Cost?, Sept 23 p 54†
Transportation Bill for U. S. in 1862, Oct 1/14 p 200
Transportation Center Planned for Garden City, N. Y.,
Dec 2 p
Transportation, Integrated:
Army Uses Flexi-Vans in Rail-Truck-Ship Service,
July 8 p 24*
ACL Finds Profit in LCL Plan, Oct 28 p 45*
Better Utilization of U. S. Systems Urged, Oct 28 p
55

ACL Finds Profit in LCL Plan, Oct 28 p 45°
Better Utilization of U. S. Systems Urged, Oct 28 p
55
CMStP&P Expands Use of Bus Links, Aug 12 p 30
Freas, Howard G., on, Nov 4 p 13
How a Motor Carrier Looks at, Oct 28 p 13°
Intermodal Thinking Urged, Oct 7/14 p 160; Oct 28 p
17°
Menk, L. W., on, Sept 30 p 69
Needed to Promote Export Trade, July 1 p 39
Transit's New Status in Cities, Oct 21 p 24
Transportation Policy:
Easy Lessons in Economics, July 1 p 42
Government Restraints on Efficient Railroading
Must Be Removed, Oct 7/14 p 202
NAS-NRC Report on Science and Technology in the
Railroad Industry, Oct 7/14 p 152
NAS-NRC Report on Science and Technology in the
Railroad Industry, Oct 7/14 p 152
Needed—More Sam Flints, Sept 23 p 54
Transportation Program of President Kennedy, Aug 12
p 9; Oct 7/14 p 148; Oct 21 p 40; Oct 28 p 10, Nov
18 p 31; Dec 2 p 10, p 38†; Dec 23/30 p 10
Transportation Research Program of Dept. of Commerce, Aug 12 p 10; Sept 9 p 12
Transportation Studies to be Made by Communities
Seeking Federal Funds for Highway Projects, Dec
2 p 23
Travel Surveys:
Tri-State Transportation Committee, Oct 28 p 56
Univ. of Michigan, Aug 26 p 74
Trinity River Canal Project, Dec 16 p 20
Tri-State Transportation Committee Surveys Travel
Habits in New York Metropolitan Area, Oct 28 p
56
Trolleys, Geared; Manning, Maxwell & Moore, Aug 26

Trolleys, Geared; Manning, Maxwell & Moore, Aug 26 p 67*

p 67° Truck Springs, Crucible Steel Tests, Nov 11 p 26° Truck Versa-Metals Hand, Aug 12 p 33 Trucks, Car:
ASF Four-Wheel Ridemaster, Oct 21 p 33° ASF Six-Wheel Ride-Control, Sept 30 p 27° Symington-Wayne 70-Ton High-Speed, Oct 21 p 34° Trucks, Industrial:

rucks, Industrial:
Electric, with Solid State Speed Control; ElwellParker Elec. Co., Aug 26 p 67
Luft Truck Control; Automatic Lift Trucks, July 29
p 65*
Pallet; Crown Controls Corp., Aug 26 p 67*
Push-Pull Rack; Clark Equip. Co., Aug 12 p 33*
Utility Vehicle; Cushman Motors, Dec 23/30 p 34*
unnels:

Utility Vehicle; Cushman Motors, Dec 23/30 p 3 Tunnels:

B&O Clearance Project, Nov 11 p 12*

CRI&P Clearance Project, July 29 p 50*
CNO&TP "Rathole" Unplugged, July 22 p 13
Clinchfield, at Spartanburg, Aug 19 p 19*
Switzerland May Build 28-Mile, July 29 p 71
Turbocharger Tester; Meter-Makers, Aug 5 p 33
Twin Executives, July 29 p 50
Tysol Prod.: Spray Cleaning Unit, Dec 9 p 50*

U

U. S. Sanitary Specialties Corp.: Insecticides, Aug 5

U. S. Sanitary Specialties Corp.: Insecticides, Aug 5 p 33
Underframe End; General Steel Ind., Nov 4 p 38*
Underframes (See also Cushioning Devices)
Union Carbide Corp.: Interview with General Traffic Manager Charles Beard, July 29 p 40*
Union Ind. Equip. Corp.: Noise Recorder, Sept 2 p 30*
Union of Soviet Socialist Republics:
Moscow Subway Extended, Nov 4 p 44
100-mph Express Train, July 29 p 7
Union Pacific:
Fast Long-Distance Freight Run, Oct 21 p 40
Harriman Safety Award, Sept 16 p 40
Locomotives, Gas-Turbine-Electric, Performance of, July 1 p 39
Merger Agreement with CRI&P, July 1 p 9; Aug 5 p 30; Aug 12 p 7; Sept 2 p 36; Sept 23 p 32; Sept 30 p 76; Oct 21 p 7; Nov 4 p 9; Nov 25 p 67; Dec 2 p 7; Dec 16 p 7; Nov 4 p 9; Nov 25 p 67; Dec 2 p NSC Safety Award, Aug 19 p 40
Union RR- BLE Pact Calls for Elimination of Firemen, Dec 23/30 p 25

Union Tank Car Company: Pressurized Dry Bulk Car, July 8 p 21* To Buld 38,500-Gal, Cars, Sept 9 p 7 Unitemp Car for Fruit Juices, July 8 p 21*

Unitemp Car for Fruit Juices, July 8 p 21*
Unit Trains:
Breakthrough in Rates and Service, July 8 p 36
Improved Car Utilization Possible, Nov 4 p 15
Key to Coal's Survival?, Nov 4 p 40*
L&N Cars Use Five Steels, Nov 4 p 32*
N&W Tests 150-Ton Hopper Car, Dec 16 p 32*
Operation Planned in Great Britain, Oct 28 p 7
Philadelphia Electric Co. Low Rates Attributed to,
Sept 16 p 7
United Process Machy, Corp.: Urethane Foam Dispenser, July 22 p 29*
United States Corps of Engineers: Car Unloader
Dumps Stone for Rail-to-Water Transfer, July 15
p 35*
United States Department of Agriculture: Backs Southern's 'Big John' Rates, Aug 12 p 31
United States Department of Commerce:
Effect of Strike on the Economy, Aug 19 p 17
Transportation Research Program, Aug 12 p 10;
Sept 9 p 12
United States Department of Commerce:
Army Transportation Corps 21 Years Old, July 22
p 36
Flexi-Vans Tested in Rail-Truck-Ship Service, July
8 p 24*

Flexi-Vans Tested in Rail-Truck-Ship Service, July

Flexi-Vans Tested in Rail-Truck-Ship Service, July 8 p 24*
United States Freight Co. Seeks Control of Seatrain Lines, July 22 p 10
United States Steel Corp.:
Car Retarders at Gary Coal Handling Facility, Dec 23/30 p 26*
Container Design and Transfer Concepts, July 22 p 24*
Facilities for Hank Transfer Concepts, July 22
Facilities for Hank Transfer

p 24*
Facilities for Heat-Treating Rails for Use on HeavyDuty Curves, Aug 12 p 36*
United States Supreme Court:
C&O Control of B&O Upheld, Dec 16 p 7
Dismisses Action Against Port of New York Authority World Trade Center, Nov 18 p 16
ICC Denied Rehearing of Port Differentials Order,
July 8 p 36
Justice Black Sees 'Rail Bias' in ICC Actions, Dec 9
p 40
Refuses to Review C&FI Joint Bail-Water Rate Case.

p 40 Refuses to Review C&EI Joint Rail-Water Rate Case, Dec 9 p 40 Refuses to Review ICC Labor Policy in Rail Mer-

gers, Oct 21 p 40 Refuses to Review Strike Insurance Pact, Oct 21

Refuses to Review Strike insurance two, p 7
Reinstates Verdict for D&RGW Employee Who Was Frosthiten, Dec 16 p 48
Unloading Device, Pneumatic; North American Car Corp., Sept 9 p 33*
Urban Transport (See Mass Transport)
Urethane Foam Dispenser; United Process Machy.
Corp., July 22 p 29*
User Charges: Street-Use Pricing Proposed, July 1 p 22*

V

Valve, Brake Control; Westinghouse Air Brake Co., Oct 21 p 33* Van Prod. Co.: Air Dryers Cut N&W Costs, Aug 19 p 28*

Vapor Corp.:
Alertness Control for Locomotives, Dec 9 p 39*
Boiler Plants, Trailer-Mounted, Nov 11 p 40
Car Heating and Ventilating System. Sept 2 p 30*
Space Heater, Aug 5 p 33*
Vending Machines in Lounge Car; AT&SF, July 15 p 28*
Ventilation System for Passenger Cars; Vapor Corp.,
Sept 2 p 30*
Vermont Ry, Organized, Sept 23 p 7; Dec 23/30 p 7
Versa-Metals Hand Truck, Aug 12 p 33
Vibrator, Car; Cleveland Vibrator Co., Sept 23 p 46*
Vitasul Ind., Diesel Fuel Additive, Dec 2 p 30

W

Wabash:
Cars, Box, for Auto Parts, Aug 19 p 14*
Large, H. W., Named President, Sept 9 p 5
N&W Plan for Leasing, Nov 25 p 66
Plan V TOFC Extended to Canada, July 22 p 7
Washer, Air Filter; Ramco Equip. Co., July 15 p 38*
Washer, Foam; Oakite Prod., Aug 5 p 33*
Washer, High-Pressure; L&A Prod., Dec 2 p 30*
Washer, Tank; Wyandotte Chemicals, Dec 16 p 42
Washington, D. C., Boston Transport Facilities, Dept o
Commerce Assigns Study of, Aug 12 p 10 Oct 7/14
p 200
Washington, D. C., Transit Plan Opposed by Highway Wabash:

Washington, D. C.-Boston Transport Pacilities, Dept. of Commerce Assigns Study of, Aug 12 p 10 Oct 7/14 p 200
Washington, D. C. Transit Plan Opposed by Highway Interests, July 15 p 10; Setback for, Dec 16 p 46
Watching Washington with Walter Taft (See page 10 of each issue except July 1 p 36; July 29 p 46; Aug 12 p 30; Oct 7/14 p 148; Oct 21 p 24)
Water Carriers:
Mississippi River Traffic in 1962, July 29 p 71
Revenues Decline in First Quarter, July 22 p 7
Second Quarter Traffic Up, Aug 5 p 7
Technological Developments, July 22 p 17*
Water Cooler, Thermoelectric; Westinghouse Elec.
Corp., Nov 18 p 33
Waterways:
Lake Erie-Ohio River Canal Project, July 1 p 36;
July 15 p 40°; Dec 16 p 20
Next Year's Battles on the, Dec 16 p 16*
St. Lawrence-Hudson River Route, Oct 21 p 40
Trinity River Canal Project, Dec 16 p 20
Welland Canal Capacity to be Increased, Aug 12 p 40
Webb, Comm. Charles, on Change in ICC Regulatory
Policy, Dec 9 p 58†
Webb, the Rug-Puller, July 29 p 74†; Aug 19 p 311
Webbing Fittings, Aeroquip, July 29 p 66*
Weed Spraying by Helicopter; Mp, Sept 23 p 52
Week at a Glance (See page 5 of each issue)
Weighing in Motion System; Reading, Sept 16 p 16*
Weighing in Motion System; Reading, Sept 16 p 16*
Weighing in Motion System; Reading, Sept 16 p 16*
Weighing in Motion System; Reading, Sept 16 p 16*
Western Maryland: Joins Trailer Train Co., Sept 2 p 7
Western Pacific:
Control by AT&SF Recommended by ICC Examiner,
Sept 16 p 9; Nov 4 p 10; Calls Stockholders' Meeting, Nov 25 p 67; Dec 23/30 p 40
Electronic Information and Control System Developed with GE, Nov 11 p 34
Marketing Program, Progerss of, July 29 p 19
Outlook for 1963, July 22 p 22

Western Railroad Supply Co.: Flooring Materials, Nov. 18 p 33

18 p 33
Westinghouse Air Brake Co.:
Air Brake Control Valve, Oct 21 p 33*
Air Brake Safety Control, Nov 4 p 33*
Air Brake Safety Control, Nov 4 p 33*
Automated Air Brake Test Rack, July 8 p 17*
Automated Train Control Center, Aug 5 p 19*
Brake Shoe Tests, Aug 26 p 31*
Marketing from Supplier's Viewpoint, July 29 p 24*
Union Switch & Signal Div.:
Cylinder and Piston for Car Retarders, Aug 19 p 33

Cylinder and Piston for Car Retarders, Aug 19 33
Solid State Code Control System, Nov 18 p 34*
Westinghouse Electric Corp.:
Electrode, Improved, July 15 p 38
Water Cooler, Thermoelectric, Nov 18 p 33
Wheel Checkers:
Bad Wheels Spotted in Motion, Dec 16 p 23*
Wheel Recorder, Nov 18 p 34*
Wheel Recorder; Wheel Checkers, Nov 18 p 34*
Wheels Recorder; Wheel Checkers, Nov 18 p 34*

wheel Recorder; Nov 18 p 34*
Wheels:
Bad, Spotted in Motion, Dec 16 p 23*
Effect of Heavy Freight Cars on, Dec 2 p 11
38-Inch Diameter; Griffin Wheel Co., Nov 18 p 33
38-Inch Diameter; Griffin Wheel Co., Nov 18 p 33
38-Inch Diameter; Griffin Wheel Co., Nov 18 p 33
38-Inch Diameter on FRR, Aug 26 p 7
Whitehead & Kales Builds Specialty Cars, Aug 19 p 32
Windshields, Electrapane; Libbey-Owens-Ford Glass
Co., July 1 p 34*
Wire Feeder; Airco Co. International, July 15 p 37*
Working Rules and Agreements:
Labor-Management Dispute, July 8 p 9*, July 15 p
3°, p 46f; July 22 p 9, p 38f; President's Plan for
Settling, July 29 p 9*, Aug 5 p 26, p 42f; Aug 12
p 9; Aug 19 p 8, p 17, p 311, p 42f; Aug 26 p 9,
p 70; Goes to Arbitration, Sept 2 p 9; Sept 9 p 7,
p 10, p 38f; Sept 16 p 36*; Board Members, Sept
23 p 48*; Hearings, Sept 30 p 70; Nov 11 p 9*; Nov
25 p 9*; Award Filed, Dec 2 p 9; Dec 9 p 42; Dec
16 p 9; Dec 23/30 p 7
Sen. Morse Telegraphs Some Punches, Aug 26 p 70
Non-Ops Have Lost Jobs Too, Aug 26 p 76f
Southern Ry, Hiring of Aged Firemen Upheld by
Court, Aug 5 p 40; Aug 19 p 40; Nov 11 p 7
World Bank Loans for U.S. Railroads Favored, Dec
23/30 p 5, p 21
Wyandotte Chemicals Corp.:
Absorbent for Winter Emergencies, Nov 18 p 33
Tank Washer, Dec 16 p 42

Y

Yards:

C&NW Proviso Piggyback Plaza, Dec 23/30 p 18*

L&N at Madisonville, Nov 18 p 18*

You Ought to Know, July 1 p 40; July 8 p 36; July 15 p

44; July 22 p 36; July 29 p 71; Aug 5 p 40; Aug 12

p 40; Aug 19 p 40; Aug 26 p 74; Sept 2 p 36; Sept 9

p 40; Sept 16 p 40; Sept 23 p 52; Sept 30 p 76; Oct

7/14 p 200; Oct 21 p 40; Oct 28 p 56; Nov 4 p 44;

Nov 11 p 40; Nov 18 p 40; Nov 25 p 104; Dec 2 p

36; Dec 9 p 56; Dec 16 p 48; Dec 23/30 p 40

Youngstown Steel Door Co.: Door for Auto-Parts Cars,

Aug 19 p 15*

Yugoslavia Gets World Bank Loan, Nov 4 p 7

CURRENT PUBLICATIONS

Apex of the Atlantics, Aug 19 p 32

Backwoods Railroads of the West, Dec 16 p 40

Diesels West, Dec 16 p 40

Hoot Toot & Whistle; The Story of the Hoosac Tunnel & Wilmington Railroad, Dec 16 p 40
How the Underground Works, Aug 19 p 32
How to Negotiate a Workable Labor Agreement, Aug 26

Integral Trains, Dec 16 p 40 Iron Horses of the Santa Fe, Aug 19 p 32

Pocket Dictionary of Computer Terms, Aug 19 p 32 Proceedings of the Association of American Railroads Mechanical Division, Dec 16 p 40

Railroads of America, Aug 26 p 73 Rebel of the Rockies, Dec 16 p 40 Reprint of Record of Recent Construction No. 56—The Atchison, Topeka & Santa Fe Railway System Is-sued by Baldwin Locomotive Works, Aug 26 p 73

System Design for Computer Applications, July 15 p 44

Traffic Management, Dec 16 p 40 Transcontinental Railway Strategy, 1869-1893, Aug 26 p 73 Twilight of Steam Locomotives, Dec 16 p 40

Urban Growth and Development; A Problem Approach, July 22 p 33

PEOPLE IN THE NEWS

[*Indicates photograph]

A

Aaron, Benjamin, Sept 16 p 36; Sept 23 p 48*

Aarstad, Odd B., July 1 p 32

Ackerman, Carl D., Nov 11 p 31

Adams, Robert P., Dec 16 p 46

Adams, T. w., July 22 p 34

Adams, V. L., Sept 16 p 39

Adams, W. Francis, Nov 18 p 27*

Adams, Now 18 p 28*

Adker, Frank P., Sept 2 p 28

Adker, Frank P., Sept 2 p 26

Ader, Frank P., Sept 2 p 26

Alder, Frank P., Sept 2 p 26

Alder, Frank P., Sept 3 p 24

Albl, Michael O., Aug 28 p 52

Allerman, Dallas R., July 8 p 33

Alexander, Murice F., Dec 9 p 46

Alexander, Murice F., Dec 9 p 46

Alexander, Murice F., Dec 9 p 46

Alexander, Murice F., Dec 9 p 48

Allen, B. C., Sept 2 p 32; Sept 9 p 21*

Allison, J. Philip, Oct 28 p 52

Allison, J. Philip, Oct 28 p 52

Allison, J. Philip, Oct 28 p 52

Allison, J. Philip, Oct 28 p 54

Allison, J. Philip, Oct 28 p 52

Allor, B. C., Sept 2 p 36

Allor, B. C., Sept 3 p 36

Allorost, B. C., Sept 3 p 34

Anderson, C. F., Oct 7/14 p 156

Anderson, C. E., Oct 28 p 53

Anderson, K. R., Oct 28 p 54

Anderson, K. R., Oct 28 p 54

Anderson, R. E., Oct 28 p 53

Anderson, R. E., Oct 28 p 54

Anderson, R. E., Oct 28 p 54

Anderson, R. E., Oct 28 p 53

Anderson, R. E., Oct 28 p 53

Anderson, R. E., Oct 28 p 54

Anderson, R. E., Oct 29 p 54

Anderson

Babb, R., Aug 19 p 38
Baer, Philip D., Oct 7/14 p 158
Bagley, Ronald D., Sept 2 p 26
Bailey, E. E., Dec 23/30 p 37, p 38*
Baley, J. K., Jr., Dec 9 p 47
Baines, C. H., July 22 p 34
Baker, G. H., Dec 23/30 p 38
Baker, J. S., July 15 p 43
Baker, A. L., July 15 p 43
Baker, R. L., July 8 p 32
Baker, R. C., Oct 7/14 p 156
Baker, Vernon V., Nov 18 p 30
Baldwin, A. Richard, Sept 30 p 67
Baldwin, A. Richard, Sept 30 p 67
Baldwin, J. L., Sept 16 p 38
Baldwin, J. L., Sept 16 p 38
Baldardyn, R. D., Oct 21 p 37
Bales, Irvin W., Oct 28 p 54
Bales, Irvin W., Oct 28 p 36
Bantle, Frank J., July 8 p 32
Barber, W. H., July 15 p 43; July 22 p 34
Barcus, Delbert E., Oct 21 p 37
Barlan, L. M., Aug 19 p 38
Barrens, George L., Sept 23 p 50, p 51*
Barrens, George L., Sept 23 p 50, p 51*
Barry, G. J., Sept 30 p 65
Barry, George F., Now 4 p 43
Barry, L. P., July 22 p 34
Barrone, Dr. Frank A., Nov 18 p 30
Barr, H., Dec 23/30 p 36
Barry, L. P., July 22 p 34
Barrentett, Leland B., July 8 p 33
Bark, Kenneth G., Sept 2 p 26
Batchelder, K. C., Dec 23/30 p 39
Bateson, Norman E., Sept 30 p 55
Batchel, C. H., Oct 7/14 p 159
Baztlett, Leland B., July 8 p 33
Bash, Kenneth G., Sept 2 p 26
Batchelder, K. C., Dec 23/30 p 39
Bateson, Norman E., Sept 30 p 39
Bateson, Norman E., Sept 30 p 39
Bateson, Norman E., Sept 30 p 36
Badton, C. W., Sept 2 p 26
Baxher, Charles S., Oct 7/14 p 158
Bayer, Curf F., Oct 7/14 p 158
Beannan, James V., Sept 30 p 40
Bell, Charles P., Aug 26 p 62
Bell, Harold F., July 15 p 43
Benak, David A., Nov 18 p 27
Bennett, Robert V., Oct 7/14 p 156
Benson, Daniel A., Aug 19 p 35
Benson, Daniel A., Aug 19 p 35
Benson, Moh B., Dec 2 p 35
Benson, Moh B., Dec 2 p 35
Benson, Moh B., Dec 2 p 35
Benson, Moh B., Dec 16 p 46
Berg, A. B., August 5 p 32

Berman, Lawrence, Oct 7/14 p 158
Berry, J. E., Sept 2 p 26
Berry, D., Nov 18 p 30
Bertrand, Charles E., Sept 30 p 76; Oct
7/14 p 154, p 157, p 159*
Berube, C. Albert, July 29 p 62
Betts, G. R., Oct 7/14 p 19*
Bevan, David C., July 1 p 7; July 8 p 33*
Beven, William F., July 22 p 34
Beverly, Phillip C., Dec 9 p 46
Biaggini, Benjamin F., Sept 16 p 38, p
39*
Bicgs, Cecil W., Sept 16 p 38
Bicgs, J. O., Nov 11 p 31
Bicley, F. A., Oct 7/14 p 155
Bird, K. W., Nov 18 p 27
Birmingham, John C., Dec 23/30 p 36
Bissinger, E. M., Sept 2 p 27
Birmingham, John C., Dec 23/30 p 36
Bissinger, E. M., Sept 32; Sept 9 p 21
Black, A. R., Dec 23/30 p 38
Blakeman, E. C., Sept 2 p 32; Sept 9 p 21
Black, A. R., Dec 23/30 p 38
Blakeman, E. C., Sept 29 p 39
Blakeman, E. C., Sept 29 p 39
Blakeman, E. C., Sept 29 p 36
Block, Joseph, July 15 p 10
Bloomfield, Robert M., Oct 7/14 p 157
Boatright, D., Oct 28 p 54
Boggs, E. L., Sept 2 p 34
Bok, Derrick, Nov 25 p 104
Boleware, Sam T., Dec 16 p 46
Bollinger, John J., Nov 11 p 31
Bolmar, K. E., Nov 19 p 27
Bond, Clinton E., Aug 19 p 38
Bok, Derrick, Nov 25 p 104
Boleware, Sam T., Dec 16 p 46
Bollinger, John J., Nov 11 p 31
Bomar, K. E., Nov 19 p 27
Bond, Clinton E., Aug 19 p 36
Bonta, E., Nov 19 p 37
Bond, G. Thomas, July 29 p 34
Bors, William E., July 29 p 34
Bors, William E., July 29 p 37
Bonta, Ralph F., Sept 16 p 39
Bontam, Rolph F., Sept 16 p 39
Bontam, Ralph F., Sept 16 p 39
Bontam, Ralph F., Sept 16 p 39
Bontam, Ralph F., Sept 39 p 31
Border, C. A., July 29 p 82
Boute, J. G., Roy, July 8 p 32
Bone, A. L., July 1 p 32
Bone, B., C. A., July 29 p 82
Boutin, Arthur E., Dec 16 p 46*
Bowers, W. J., Nov 18 p 27
Bowman, Dan, Dec 2 p 34
Bowte, J., Sept 2 p 26
Branan, D. W., July 29 p 63
Brandenberg, D. E., Sept 2 p 26
Brandenburg, C. F., Sept 3 p 50
Brander, R. J., Aug 26 p 64
Breman, J. L., Oct 7/14 p 154
Bremen, R.

Butler, H. L., Oct 7/14 p 155 Butterton, M. L., July 8 p 33 Button, L. R., Sept 9 p 24 Button, L. R., Sept 9 p 24 Butts, C. A., Oct 21 p 37 Butts, George, August 5 p 32 Butz, Walter L., Oct 28 p 52 Byam, Walter W., Dec 23/30 p 36 Byrnes, T. G., Nov 18 p 27

Cabrelli, Peter J., Sept 2 p 27
Caliaway, J. L., Oct 7/14 p 156
Calwell, William R., July 22 p 34
Calza, Peter J., Aug 19 p 39
Cameron, Colin T., Nov 18 p 27
Campbell, Keith, July 22 p 34
Canfield, David L., July 29 p 53
Cannata, Joseph G., Sept 2 p 26
Cannon, J. D., Oct 7/14 p 29*
Canter, George, July 29 p 64; Nov 11
p 30
Carlson, John S., Nov 4 p 43
Carpenter, R. H., Oct 7/14 p 29*
Carriere, P. E., Sept 9 p 21
Carter, Clayton C., Nov 18 p 27
Carter, Lewis C., Sept 9 p 21
Carter, Lewis C., Sept 9 p 21
Carter, Lismeon M., July 8 p 33
Carrjiere, Harry J., Sept 16 p 38
Cary, James E., Dec 23/30 p 36
Cash, H. E., Sept 2 p 26
Castner, Richard N., July 22 p 34
Catanzarite, Frank, July 29 p 64
Catheart, James E., Nov 11 p 30, p 31*
Catlett, R. E., Sept 9 p 21
Catlett, W. A., Sept 2 p 27
Caufield, W. G., July 15 p 43
Cavan, F. J., Oct 7/14 p 156
Cavanaugh, T. W., Nov 18 p 27
Cavinee, C. H., July 15 p 43
Cedarfield, R. V., Aug 26 p 63
Cena, L., Aug 19 p 39
Cermak, Gene F., Oct 28 p 52*
Chambers, Robert T., Sept 2 p 26
Champagne, F. S., Sept 9 p 21; Oct 7/14
p 155
Chandler, G. P., Sept 9 p 21
Chandler, G. P., Sept 9 p 27
Chapman, W. E., Sept 2 p 27
Chapman, W. E., Sept 2 p 27
Chapman, W. E., Sept 2 p 26
Chessmore, Aubrey, Nov 11 p 30
Chistof, James M., July 29 p 64
Chessmore, Aubrey, Nov 11 p 30
Chistof, Samuel E., Dec 23/30 p 39
Christof, Samuel E., Dec 23/30 p 39
Christof, James W., July 29 p 34
Christia, R. I., July 29 p 34
Christia, R. I., July 29 p 34
Christie, Henry C., Aug 19 p 39
Church, Albert L., Liuly 29 p 62
Church, Albert L., July 29 p 52
Church, Albert L., July 29 p

Christian, R. I., July 22 p 34
Christie, Henry C., Aug 19 p 39
Christoff, James W., July 29 p 64; Aug 5 p 32
Chubb, John E., July 8 p 33; Sept 30 p 7;
Oct 7/14 p 156*; Oct 28 p 52
Church, Albert L., July 29 p 63
Cilley, E. P., Nov 18 p 30
Civils, E. H., Oct 7/14 p 156
Clark, Elmo F., Nov 18 p 30
Clark, H. H., Dec 2 p 34
Clark, John P., Sept 9 p 21
Clark, K. L., Aug 19 p 38
Clark, Orville, Aug 5 p 32; Nov 11 p 31
Clark, Samuel H., Sept 2 p 19; Oct 7/14
p 158
Clark, George A., Sept 9 p 21*
Clark, G. M., A., Oct 7/14 p 155
Clarke, George A., Sept 9 p 21*
Clarke, Ray, July 8 p 32
Clawson, R. G., Nov 11 p 30
Claytor, W. Graham, Jr., Sept 9 p 24
Cleland, Russell J., Nov 18 p 30
Clifford, Emmett S., Oct 7/14 p 158
Clinkenbeard, G. R., Sept 9 p 21
Cobb, F. G., Nov 18 p 27
Cobb, Kenneth K., Sept 2 p 27
Cochran, F. W., Aug 19 p 39
Cochran, Kenneth E., Oct 28 p 53
Cocke, Erle, Sr., July 29 p 62
Coe, Wennos E., Oct 7/14 p 157
Coe, W. M., Sept 30 p 68
Coffey, Guy J., Dec 9 p 48
Coffing, Ralph L., Dec 23/30 p 39
Cogan, M., Stanley, Oct 7/14 p 157
Coggins, Neil B., July 8 p 33
Cole, Wilbur, Oct 21 p 37
Coleman, Lynn B., Dec 9 p 46*
Collines, Gerald W., Oct 7/14 p 157
Colwell, Harry E., Oct 28 p 53
Collver, James I., Jr., Oct 7/14 p 154
Collins, Gerald W., Oct 7/14 p 157
Colwell, Harry E., Oct 28 p 53
Collver, James I., Jr., Oct 7/14 p 154
Collins, John J., Sept 16 p 38
Collinson, John J., Sept 19 p 37
Colwell, Harry E., Oct 28 p 53
Colyer, Carlos L., Dec 16 p 46
Comaly, C. C., III, Sept 2 p 27
Colon, J. J., Nov 11 p 30
Conners, Thomas M., August 5 p 32
Conreve, G. M., Novi 18 p 27
Colowel, E., M., Novi 19 p 30
Conres, G., M., Novi 18 p 27
Cook, E. M., Sept 2 p 27
Cook, E. M., Sept 2 p 27
Cook, E. M., Sept 2 p 27
C

Cook, H. V., Sept 9 p 21
Cook, John M., July 29 p 64
Cooke, A. E., Dec 22/30 p 37
Cooke, Stewart T., Nov 18 p 27
Cooler, E. S., July 8 p 32
Coombs, P. H., Sept 2 p 27
Cooney, J. P., July 8 p 33
Cooney, Robert J., Dec 23/30 p 38
Cooper, A. W., August 5 p 32
Cooper, David A., Aug 12 p 39
Cooper, Gerald M., July 29 p 62
Cooper, John L., Dec 9 p 46
Copeland, J. R., Nov 25 p 102
Corbett, T. W., Sept 9 p 24
Corbin, J. F., Sept 30 p 67
Correy, Shirley, Sept 2 p 26
Corley, R. A., Nov 11 p 31
Cornell, Royce A., Oct 7/14 p 157
Correa, Henry A., Nov 4 p 43
Corzine, Marvin E., Dec 16 p 46
Cosatt, G. J., Sept 9 p 21
Cosstello, Fred F., Sept 16 p 38
Cote, Lionel, July 29 p 59
Courtney, Roland E., Sept 2 p 26
Coulter, Frank, July 29 p 59
Courtney, R. C., Oct 28 p 52
Courtney, R. C., Oct 28 p 52
Courtney, R. C., Oct 28 p 52
Courtney, R. C., Dec 16 p 46
Coyle, Loren T., Dec 16 p 46
Coyle, Loren T., Dec 16 p 46
Coyle, Loren T., Dec 16 p 46
Cox, George W., Jr., Nov 19 p 30
Crawford, H. G., Nov 11 p 30
Crowley, John W., July 29 p 64
Crowley, John E., Nov 11 p 36
Crowley, Lewis L., Sept 30 p 67; Oct 21
P 37
Crows, John W., July 29 p 64
Crowley, John E., Nov 11 p 30
Crowley, Lewis L., Sept 30 p 67; Oct 21
P 37
Crowley, John E., Nov 11 p 30
Crowley, J

Dagg, M. K., Oct 7/14 p 154
Dahm, George, Oct 28 p 53
Dailey, Arthur A., Dec 23/30 p 37
Damiano, Chris W., Dec 16 p 46
Daniel, H. L., Dec 2 p 35; Dec 9 p 47
Daniels, John S., Oct 7/14 p 158
Danter, W. E., July 8 p 32
Daughenbaugh, H. L., July 15 p 43
Daulton, H. C., Oct 7/14 p 157
David, Bryan M., Sept 2 p 27
Davidson, B. C., Sept 9 p 21
Davis, Charles C., Sept 23 p 50; Dec 23/30 p 38
Davis, J. F., Dec 16 p 46
Davis, H. B., July 15 p 43; Dec 23/30 p 38
Davis, J. F., Dec 16 p 46
Davis, H. B., July 15 p 43; Dec 23/30 p 36
Davis, Goharles M., Jr., July 8 p 33
Day, Douglas O., July 29 p 64
Day, Paul H., July 8 p 32; July 15 p 43
de Camara, R. P., Sept 2 p 32; Sept 9 p 21
Decker, Ralph M., Oct 28 p 52
Defferard, Ernest, Nov 4 p 43
Decker, Ralph M., Oct 28 p 52
Defferard, Ernest, Nov 4 p 43
Depan, James E., Sept 16 p 38
DeGraw, F. R., July 8 p 33
Dehner, Joseph R., Dec 9 p 46
de la Parte, Edward P., July 8 p 32
Dellinger, Joe C., Aug 5 p 32
Dellinger, Joe C., Aug 5 p 32
Dellinger, Joe C., Aug 5 p 32
Delment, George L., Aug 5 p 32
Delment, George L., Aug 5 p 32
Devine, George L., Aug 5 p 30
Dickerson, Arthur M., Dec 16 p 46
Dickinson, Robert R., Nov 11 p 30
Diegtel, Fred, July 1 p 40; July 8 p 32
Dielly, Robert K., July 8 p 35
Dillan, J. Alfred, Oct 21 p 37
Dilley, Chester C., Sept 33 p 50, p 51*
Dillon, F. J., Dec 2 p 34
Dillon, F. J., Dec

Divine, W. R., July 8 p 32; Sept 2 p 27
Dixon, Milton A., July 22 p 35
Doan, E. S., Oct 7/14 p 154
Dodd, E. G., Sept 2 p 26
Dodds, Richard W., Nov 25 p 102
Dodge, L. W., Sept 2 p 27
Dolby, C. R., Nov 11 p 30
Dollar, Virgil, July 22 p 35
Domingus, Howard L., Dec 16 p 46
Donaher, Fred L., Aug 5 p 32
Donahue, J. W., Oct 28 p 52
Donahue, J. W., Oct 28 p 52
Donohoe, Ernest N., Jr., Sept 2 p 27
Doughty, C., Dec 23/30 p 37
Douge, C. S., Dec 9 p 46*
Dow, A. G., Dec 23/30 p 36
Downes, Russell M., Oct 21 p 37
Downey, Harold, July 29 p 62
Downing, Robert L., Oct 28 p 52
Doyle, James E., Sept 2 p 26
Draney, Herbert J., Nov 11 p 30
Draper, O. W., Nov 18 p 27
Draper, W. L., Aug 19 p 38
Drennan, J. F., Dec 9 p 46
Drenes, Joseph J., Oct 26 p 52*
Drolette, Stanley A., Oct 7/14 p 157
Druhan, Joseph J., Oct 26 p 52*
Drolette, Stanley A., Oct 7/14 p 157
Dude, C., Alfred, Aug 26 p 64
Dumbar, Arthur B., Jr., Nov 16 p 27
Dude, C., Alfred, Aug 26 p 64
Dumbar, Arthur B., Jr., Lec 23/30 p 40
Dunnan, M., July 6 p 38
Dunnan, M., July 9 p 38
Dunnan, M., July 9 p 38
Dunnan, Emmett H., Dec 9 p 46
Dunnan, Emmett H., Dec 9 p 40
Dunnan, M., July 9 p 30
Dunnan, M., July 9 p 31
Dunnan, M., July 9 p 31
Dunnan, M., July 9 p 31

Eagleton, Earl E., Dec 23/30 p 38
Earl, L. R., Oct 28 p 52
Ebling, Claude O., Nov 11 p 30
Eck, William J., Dec 9 p 46*
Edelmann, H. M., Oct 28 p 52
Eddin, Larry B., Aug 19 p 38
Edwards, C. H., July 29 p 34
Edwards, G. H., July 29 p 62
Edwards, William A., Dec 9 p 47*, p 48
Eger, Louis W., Sept 2 p 27; Dec 23/30 p 38
Eggleston, J. Morton, Jr., Dec 9 p 47
Ehrhardt, W. J., Dec 23/30 p 38
Eigner, Hal E., July 22 p 35
Eliasek, James G., July 28 p 33
Ellison, W. L., Dec 9 p 47
Elmslie, S. P., Oct 26 p 52
Elterman, F. L., July 8 p 33; Aug 19 p 39;
Sept 16 p 39
Enge, John, Oct 28 p 53
England, Edward J., July 29 p 62
Erb, William E., Sept 30 p 67
Erhardt, George H., Nov 16 p 30
Eskengren, E., Jr., Sept 9 p 21
Everson, John E., Aug 5 p 32
Eyford, W. Glynn, Nov 16 p 27

F
Fagan, G. O., July 29 p 64
Fahrland, Robert, Oct 28 p 54
Fair, J. S., Jr., Oct 28 p 52
Fairbanks, G. U., Oct 28 p 53
Farrell, R. V., Oct 28 p 53
Farrell, R. V., Oct 28 p 53
Faville, Mark W., Dec 23/30 p 37
Fedorka, M. J., Nov 18 p 27
Fell, W., Sept 2 p 26
Fellman, John A., Dec 9 p 47*, p 48
Fellman, John A., Dec 9 p 47*, p 48
Fellman, John A., Dec 9 p 47*, p 48
Fellman, John A., Dec 9 p 47*, p 48
Fellman, John A., Dec 9 p 48
Fellman, John A., Oct 21 p 37
Fillion, E. J., Sept 23 p 50
Firth, R. L., Dec 2 p 35
Fischer, Thomas V., Aug 19 p 39
Fish, W. J., Nov 18 p 30
Fisher, Gordon H., Dec 9 p 48
Fisherid, J. P., Aug 19 p 9
Fitch, J. Emmett, Sept 2 p 27
Fitzgatrick, J. H., Oct 7/14 p 156
Fitzpatrick, J. H., Oct 7/14 p 156
Fitzpatrick, J. H., Oct 7/14 p 157
Flynn, Frank J., Dec 23/30 p 39
Forbes, Thaddeus W., Nov 18 p 30; Dec 2 p 34
Forcer, Bernard R., Dec 2 p 34; Dec 23/30 p 38
Forbes, Thaddeus W., Nov 18 p 30; Dec 2 p 34
Forcer, Bernard R., Dec 2 p 34; Dec 23/30 p 38
Forbes, Thaddeus W., Nov 18 p 30; Dec 2 p 34
Forcer, Bernard R., Dec 2 p 34; Dec 23/30 p 38
Forbes, Thaddeus W., Nov 18 p 30; Dec 2 p 34
Forcer, Bernard R., Dec 2 p 34; Dec 23/30 p 38
Forbes, Thaddeus W., Nov 18 p 30; Dec 2 p 34; Dec 25/30 p 38
Fords, John T., Aug 12 p 39*
Forrester, Herbert C., Sept 30 p 67
Forsell, Robert W., July 22 p 34
Forsela, J. M., Nov 11 p 30
Forsha, J. M., Nov 11 p 30
Forsha, J. M., Nov 11 p 30
Forsha, J. M., Nov 11 p 30
Forshage, Glennon V., Aug 19 p 38

Foshee, James A., Oct 28 p 52
Foster, Chester W., Sept 30 p 67
Foster, Robert E., Oct 7/14 p 157
Foster, Wayne A., Aug 19 p 38
Fowler, Edward J., July 8 p 33
Fowlow, A. W., Oct 7/14 p 154
Fox, John, July 29 p 62
Fox, John, July 29 p 62
Fox, John, July 29 p 62
Francks, Grander C., Aug 26 p 63
Francesconi, Fred, Nov 18 p 27
Francis, W. W., Sept 2 p 32; Sept 9 p 21
Frank, Raymond G., Sept 30 p 66
Franke, Hugo A., July 8 p 33
Fraser, R. M., July 22 p 34
Frasher, Edward P., Nov 18 p 30
Franzen, E. T., Aug 19 p 39
Freas, Howard G., July 29 p 9*
Frederick, John H., July 29 p 4*
Freedown, Stanley B., Jr., Sept 2 p 26
Freed, Louis T., Dec 16 p 46
Freeman, Stafford L., July 29 p 62
Freend, Graham M., Sept 20 p 26
French, R. J., Sept 30 p 67
Freund, James A., Sept 30 p 67
Freund, James A., Sept 30 p 67
Friyer, J. H., Jr., Dec 9 p 46
Fullmore, George, Oct 28 p 53
Funklouser, A. Paul, July 22 p 34*
Fusfeld, Herbert I., Sept 23 p 50

G

Gaddy, Frank N., Dec 9 p 46
Gage, W. C., July 22 p 34
Gallagher, John S., Jr. Nov 18 p 30
Gallentine, R. F., Nov 18 p 27
Ganley, John P., July 8 p 32*
Garreau, D. J., Sept 30 p 65
Garrett, H. B., Oct 7/14 p 29*
Garther, Morris, Aug 12 p 39
Gastler, H. L., Sept 2 p 32; Sept 9 p 21*
Gauthier, J. E., July 29 p 62
Gavaghan, Joseph P., Jr., Dec 2 p 35
Gay, Albert S., Aug 5 p 32
Geaney, Richard W., Dec 23/30 p 38
Geeslin, B. E., July 8 p 33
Geibel, W. G., Nov 18 p 30
Genet, Norbert H., July 29 p 62
Gentry, Winston A., July 15 p 43
Gentsch, E. J., Oct 28 p 52
German, J. G., Dec 23/30 p 40
Gerson, John, Jr., July 29 p 63
Gerstnecker, W. R., July 8 p 32
Gibson, Mark D., Aug 19 p 38
Gidding, James G., July 8 p 33
Gidske, Millard E., July 29 p 62*, p 63
Gilbert, H. E., July 29 p 71; Sept 9 p 7;
Sept 23 p 48*
Gilbert, John P., Aug 26 p 62
Gille, J. E., Dec 23/30 p 37
Gilkey, W. Bradley, July 15 p 43; Oct 28
p 54
Gill, Javid W., July 29 p 62
Gill, J. E., Oct 21 p 37
Gill, Raphael C., Oct 7/14 p 156
Gillis, D. W., Dec 23/30 p 36
Gillagn, John 19
Gill, Samuel B., Oct 7/14 p 156
Gillis, D. W., Dec 23/30 p 36
Gilacy, George F., Aug 19 p 30
Glaze, Voyce C., Dec 23/30 p 36
Glaze, George F., Aug 19 p 30
Glaze, Voyce C., Dec 23/30 p 36
Glaze, George F., Aug 19 p 30
Glaze, George F., Aug 19 p 30
Glaze, Coyce C., Dec 23/30 p 36
Glaze, George F., Aug 19 p 30
Glaze, George F., Aug 19 p 30
Glaze, Coyce C., Dec 23/30 p 36
Glaze, George F., Aug 19 p 30
Glaze, Coyce C., Dec 23/30 p 36
Gleason, Theodore D., Oct 28 p 53
Glodylick, J. A., Nov 11 p 30
Gonder, Douglas V., Nov 25 p 102
Goodall, Bryant R., Dec 9 p 47; Dec 23/30 p 37
Godspeed, Bennett W., Sept 30 p 65
Googe, P. H., Sept 2 p 27
Godsberry, Dwaine, Nov 18 p 30
Green, D. S., Nov 18 p 30
Green, Edward J., July 29 p 25*
Green, George A., July 15 p 43; July 29
p 62
Green, James A., Sept 16 p 39
Green, James L., Nov 18 p 30
Green, D. S., Nov 18 p 30
Green, D. S., Nov 18 p 30
Green, D. S., Nov 18 p 30

H

Hackbarth, Philip M., Sept 30 p 65
Hackney, T. P., Dec 16 p 46
Haines, M. A., Oct 28 p 52
Hale, T. J., Oct 7/14 p 156
Haley, Richard J., July 8 p 33
Hall, Ivan B., Dec 16 p 46
Hall, J. H., Sept 2 p 32; Sept 9 p 21
Hall, J. H., Sept 2 p 32; Sept 9 p 21
Hall, J. H., Sept 2 p 32; Sept 9 p 21
Hall, L. K. J. July 15 p 43
Hamer, Joseph G., July 15 p 43
Hamer, Joseph G., July 15 p 43
Hamer, Joseph G., Oct 7/14 p 156
Hamil, Robert G., Oct 7/14 p 158
Hamilin, Robert G., Oct 7/14 p 158
Hamilin, Robert G., Oct 7/14 p 158
Hamilin, W. Sept 23 p 50
Hanna, W. C., Sept 2 p 27
Happley, Joseph R., Nov 11 p 31
Hardin, C. W., Aug 19 p 39
Hardin, D. W., Oct 7/14 p 155
Hardin, D. W., Oct 7/14 p 155
Hardin, D. W., Oct 7/14 p 155
Harring, W. A., July 8 p 32
Harrison, W. G., Sept 2 p 23
Harrison, George, July 15 p 10
Harrison, W. G., Sept 2 p 26
Hatcher, John M., Sept 2 p 27
Hauck, Harold C., Aug 26 p 63
Hawks, Carl C., Aug 12 p 39
Hawthorne, John W., Sept 2 p 34
Hayes, J. D., Nov 18 p 27; Dec 2 p 34
Hayes, J. D., Nov 18 p 32
Hayes, J. D., Nov 18 p 39
Hawthorne, John W., Oct 21 p 37*
Hayes, Ernst G., Dec 9 p 47
Hayes, J. D., July 29 p 64; Aug 26
p 64
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 64; Aug 26
p 10
Hayes, J. D., July 39 p 69
Heally, Lawrence J., Sept 30 p 67
Heally, Thomas M., Aug 26 Hoffman, Otto H., Aug 19 p 38; Aug 62

Rogan, E. F., Nov 18 p 27

Hogle, James E., Dec 2 p 35

Holmann, A. F., Oct 7/14 p 157

Holland, Edward A., Nov 11 p 30

Holland, W. H., Sept 9 p 21*

Hollett, Charles N., July 22 p 34

Hollety, J. M., Sept 2 p 26

Holloway, John, Dec 2 p 35

Holloway, John, Sept 9 p 21

Holloway, Holland, Holland, John, Sept 2 p 26

Holloway, Grant, Sept 9 p 21

Hoover, Carl A., July 9 p 33

Hoover, Carl A., July 9 p 34

Hoppe, Harold A., Dec 2 p 34

Horning, Lawrence W., Nor 4 p 43
Hourigan, G. P., Sept 30 p 67
Howe, Joseph A., Aug 19 p 39
Hrebec, John M., July 8 p 32
Huband, G. E., Nov 11 p 30
Huber, Bonald C., Aug 26 p 63
Huber, H. R., Oct 7/14 p 158
Huffman, H. D., July 15 p 43
Huber, B. S., Nov 18 p 27
Hughes, Philip G., Aug 19 p 39
Hughes, P. C., Dec 2 p 34
Huzenga, Theodore, Oct 28 p 54
Huzenga, Theodore, Oct 28 p 54
Huzenga, Theodore, Oct 28 p 54
Humbert, J. C., Nov 18 p 30
Huneault, J. F. M., July 29 p 62
Hungerford, K. A., Oct 21 p 37
Hunter, R. I., Dec 16 p 46
Hurd, Edward D., Sept 9 p 21
Hurt, L. D., Sept 2 p 26
Hurt, LeRo, Wall 12 p 39
Hutchinson, J. B., Nov 11 p 31
Hutton, Francis S., Sept 2 p 26; Oct 28
p 52
Hutton, Richard R., July 15 p 43
Hyers, Kemper K., Aug 5 p 32
Hylan, Edward F., July 29 p 64

1

Intemann, Hermann K., July 29 p 64

J

Jackman, Clarence E., Oct 7/14 p 154, p 155*
Jackson, F. H., Sept 2 p 26
Jackson, F. J., Nov 4 p 43
Jackson, M. G., Dec 23, 30 p 36
Jackson, M. G., Dec 12, 15 p 34
Jamison, W. L., July 22 p 34
Jamison, M. J., Nov 11 p 30
Jamson, J. K., Nov 11 p 30
Jansson, J. K., Nov 11 p 30
Jansson, J. K., Nov 11 p 30
Jansson, J. K., Nov 11 p 30
Janseld, E. A., Dec 9 p 48
Jardine, Alvin, July 15 p 43
Jardine, J. D., Dec 23, 30 p 36
Jay, Clifford A., Jr., July 29 p 63
Jay, Clifford A., Jr., July 29 p 63
Jay, Clifford A., Jr., July 29 p 63
Jay, Clifford A., Jr., July 30
Jansen, Thomas, Jr., Nov 18 p 27
Jenner, R. M., Nov 11 p 30
Jenness, Leslie G., Sept 23 p 50
Jensen, Arthur, Aug 19 p 39
Jensen, J. M., Sept 2 p 26
Joerger, D. L., July 8 p 32
Johnson, Ben J., Aug 5 p 32*
Johnson, Ben J., Aug 5 p 32*
Johnson, Charlie, Dec 2 p 34
Johnson, Howard E., July 6 p 32
Johnson, Roy B., Nov 11 p 30
Johnson, Roy B., Nov 11 p 30
Johnson, Ber, August 5 p 32
Johnstone, Gordon A., Dec 2 p 35
Johnson, B. E., August 5 p 32
Johnstone, Gordon A., Dec 2 p 26
Jones, W. W., Jr., Sept 2 p 26
Jones, W. W., Jr., Sept 2 p 26
Jones, W. J., Jr., Sept 2 p 26
Jones, W. J., Jr., Sept 2 p 26
Jones, W. J., Jr., Sept 2 p 27
Judson, R. C., Aug 19 p 39
Judy, Thomas X., Sept 2 p 27
Juneo, Robert A., Dec 2 p 34
Jungels, Frank C., Dec 9 p 48
Jungels, Frank C., Dec 9 p 48
Jungjohann, Paul, July 22 p 35

K

Kellenberger, Allen N., Aug 12 p 39
Keller, Harry C., Oct 28 p 53
Keller, J. W., Nov 18 p 27
Kelley, C. M., July 22 p 34
Kelley, C. M., July 22 p 34
Kelley, C. M., July 22 p 34
Kelley, E. A., Sept 30 p 65
Kellogg, Harold W., Dec 9 p 46
Kellogg, Harold W., Dec 9 p 46
Kelly, Eugene B., Oct 28 p 52
Kelly, Mark L., Nov 4 p 43
Kendrick, Robert E., July 1 p 32
Kennedy, R. F., Aug 19 p 38
Kennedy, R. F., Aug 19 p 38
Kerns, H. J., Sept 2 p 27
Kern, Richard J., Aug 26 p 62
Kerns, H. O., III, Oct 7/14 p 155
Kerr, E. Clive, Nov 16 p 27
Kerslake, John F., July 1 p 32; July 8 p 33
Kester, Clement S., Aug 5 p 32
Kiefaber, Theodore E., Nov 4 p 43
Kieffer, Nicholas C., Jr., Nov 11 p 30
Killian, I. E., Dec 23/30 p 39
Kinnball, C. W., Oct 7/14 p 28*
King, I. W., Aug 19 p 38
King, L. J., Sept 9 p 21
King, W. M., Aug 19 p 39
Kinninger, Daniel A., Aug 12 p 39
Kirchem, Ed. Sept 30 p 67
Kirchenter, F. W., July 15 p 43*
Kirchem, Ed. Sept 30 p 67
Kirchenter, F. W., July 15 p 43*
Kirchem, Ed. Sept 30 p 67
Kirchenter, Kenneth A., July 8 p 33
Klein, William A., Aug 5 p 32
Kleinkort, J. P., Oct 7/14 p 28*
Klester, Harry A., Sept 9 p 21
Klodt, T. E., Nov 18 p 27

PEOPLE IN THE NEWS-Continued [*Indicates photograph]

M

Klover, Ervin G., Dec 2 p 34
Knapp, Robert E., Aug 26 p 62
Knight, Arthur E., Dec 2 p 34
Knight, Guy W., Sept p 9 p 7, Sept 23 p 48*
Knox, J. P., Aug 16 p 38*
Knox, J. P., Aug 16 p 38*
Knox, J. P., Aug 16 p 38*
Kochanowski, H. W., Oct 21 p 37
Koehler, Anthony C., Aug 12 p 39
Koehler, Anthony C., Aug 12 p 39
Koehler, J. T., July 15 p 43
Koehler, J. T., July 15 p 43
Koenls, H. M., Oct 28 p 53
Koehl, Stephen H., Nov 11 p 31
Korth, Fred, Oct 7/14 p 27*
Kreckman, William H., Aug 26 p 64
Kreis, J. L., Nov 11 p 30
Kremi, Franklin M., July 15 p 44
Krieslen, A. E., Sept 26 p 26
Kuhn, Douglas B., Aug 19 p 38
Kurka, Frank G., Dec 9 p 46
Kurtz, Robert E., July 29 p 64
Kurtz, Robert E., July 29 p 64
Kusik, John E., Nov 25 p 102*

L

Lafferty, D. W., Dec 23/30 p 38
LaFleche, Ronald E., Sept 2 p 26
Lahndorft, Norman, Nov 18 p 27
Lamphier, T. J., Aug 19 p 38
Lampley, A. M., July 29 p 71
Lancaster, Robert A., July 1 p 32
Landell, Keith D., Nov 18 p 31
Landregan, Robert J., July 22 p 34*, p 35
Lane, C. C., Sept 2 p 32; Sept 6 p 21
Lane, Wayne H., Aug 19 p 39
Langton, Jervis, Jr., Nov 18 p 19*
Lannam, William J., Nov 11 p 30; Nov 18 p 30
Large, Henry W., Sept 9 p 5; Oct 28 p 52;
Nov 4 p 43*
Larrabee, Guy D., Dec 16 p 46*
Larsen, Clarence E., July 8 p 32*
Larrebee, Guy D., Dec 16 p 46*
Larsen, Clarence E., July 8 p 30*
Largon, Edvil J., Sept 30 p 65*
Larson, George A., Dec 2 p 35
Larson, George A., Dec 2 p 35
Larson, George A., Dec 2 p 35
Larson, William A., Dec 23/30 p 40
Lauber, N. E., Sept 9 p 21
Law, James M., Dec 16 p 46
Lawrence, F. E., Sept 2 p 26
Lawsen, Frank, July 15 p 43
Leach, W. F. Aug 19 p 32
Leavitt, Allan N., Nov 18 p 27
Ledbetter, A. W., July 22 p 35
Lee, G., Sept 2 p 27
Leglanc, Emery, Nov 18 p 27
Ledbetter, A. W., July 22 p 35
Lee, B. B., July 8 p 33
Lee, G. A., Sept 2 p 27
Leggett, John H., Dec 23/30 p 37
Lethann, D. E., Nov 18 p 27
Ledbetter, A. W., July 22 p 35
Lee, B. B., July 8 p 33
Lee, G. A., Sept 2 p 27
Leggett, John H., Dec 23/30 p 37
Lehman, D. E., Nov 18 p 27
Lebman, D. E., Nov 18 p 39
Levit, L. L., July 22 p 34
Lentz, L. L., July 22 p 34
Lentz, L. L., July 22 p 34
Lentz, Leon L., Oct 28 p 54
Levent, R., Sept 19 p 39
Levis, Liston F., July 22 p 34
Lentz, Leon L., Oct 28 p 54
Levent, Charles E., July 1 p 32
Levenduski, Bernard, Oct 21 p 37
Lewin, Donald C., Sept 30 p 67
Levis, Charles E., July 1 p 32
Levenduski, Bernard, Oct 21 p 37
Levin, Donald C., Sept 30 p 67
Levin, Donald C., Sept 30 p 39
Lindch, H., Wyne B., Dec 16 p 46
Lindcher, L. A., July 22 p 34
Linthall, George R., Dec 23/30 p 39
Lincoln, Rush B., Jr., Dec 16 p 46
Lindcher, L. A., July 29 p 34
Linthall, George R., Dec 28 p 52
Lockwood, J. C., Dec 16 p

MacCarthy, Raymond J., Dec 16 p 46
MacDonald, John, Aug 19 p 39
MacDonald, John, Aug 19 p 39
MacDonald, Roderick, J., Nov 18 p 27
MacInnes, Angus R., July 29 p 62
Mack, H. Edmund, Jr., July 8 p 33
MacMillan, Lyle F., Oct 7/14 p 157
Madden, John C., Oct 7/14 p 159
Magnuson, Warren G., Oct 7/14 p 159
Maher, J. J., July 29 p 62; Sept 2 p 27
Maher, J. J., July 29 p 62; Sept 2 p 27
Maher, J. J., July 29 p 62; Sept 2 p 27
Maher, J. J., Oct 28 p 52
Mahoney, Dr. Frank W., Nov 18 p 30
Maidman, Irving, Sept 2 p 27
Malken, Benjamin J., Sept 9 p 24; Sept 23
p 50
Maions, T. F., Nov 18 p 27
Malkon, Rex R., Dec 23/30 p 39
Manion, Raymond R., Nov 4 p 43*
Mann, Emmett H., Dec 23/30 p 39
Mann, H. T., Oct 7/14 p 154
Manning, James G., Oct 28 p 54; Dec
23/30 p 39
Mappes, T. R., Aug 19 p 38
Mars, Dr. Francis J., Nov 18 p 30
Marine, I. Theodore, July 8 p 33
Marklein, George L., Aug 19 p 39
Marquette, William J., July 1 p 32
Marquis, Robert C., Oct 7/14 p 157
Marsalis, Edwin L., Dec 16 p 46
Martin, Francis, Dec 2 p 34
Mauson, K. R., Oct 7/14 p 154
Masters, James, July 1 p 32
Mason, K. R., Oct 7/14 p 154
Masters, James, July 1 p 32
Mathews, H. O., Dec 9 p 43
Mauser, W. C., July 2 p 34
Maughan, Ronald G., Sept 2 p 26
Mason, Abbrey T., Sept 39 p 21
Masson, K. R., Oct 7/14 p 154
Masters, James, July 1 p 32
Mathews, H. O., Dec 9 p 43
Mauer, W. C., July 2 p 34
Maughan, Ronald G., Sept 2 p 26
McCanfrey, W. B., Sept 9 p 21
McCallungh, J., Sept 30 p 68*
McCanna, B. J., Sept 30 p 68*
McCanna, B. J., Sept 30 p 68*
McComans, C. R., Nov 18 p 27
McCalfrey, W. B., Sept 9 p 26
McComans, C. R., Nov 18 p 27
McCalfrey, W. B., Sept 9 p 26
McComans, C. R., Nov 18 p 27
McCalfrey, W. B., Sept 9 p 26
McComans, C. R., Nov 18 p 27
McCalfrey, W. B., Sept 9 p 26
McComans, C. R., Nov 18 p 27
McGee, R. J., Nov 18 p 29
McGee, B. J., Nov 18 p 39
McGen 30 hD, Sept 9 p 24
McCanna, Pate 10 p 24
McCalfrey, W. B., Sept 9 p 24
Mc

m j 38

McKay, Gordon A., July 1 p 40; Aug 5 p 13*

McKee, H. J., Sept 30 p 67

McKeithan, A. K., Dec 23/30 p 36

McKeena, Joseph E., Nov 11 p 31

McLean, L. M., Sept 23 p 50

McLeemore, R. C., Sept 23 p 50, p 51*

McLedon, L. M., Sept 23 p 50, p 51*

McLedon, C. D., Core 23/30 p 37

McMahlan, G. D., Oct 1/14 p 154

McNatt, James L., Aug 19 p 39

McNatt, James L., Aug 19 p 39

McNatt, James L., Aug 19 p 39

McNat, James L., Aug 19 p 39

McNat, James L., Aug 26 p 46

Meanor, William H., Aug 19 p 39

Meany, George, July 15 p 10

Mears, L. J., Sept 23 p 50

Meehan, Thomas F., Aug 26 p 62

Meek, H. R., Dec 23/30 p 39

Mehaffy, Pat, Sept 30 p 65

Mehring, Jack G., Nov 18 p 31

McIdahl, Roger G., Aug 18 p 38

McIzer, Howard L., Sept 16 p 38; Oct

7:14 p 157

Menaker, Harry, Aug 26 p 64

Mercer, A. T., Aug 19 p 39

Merchant, Francis D., Nov 11 p 30; Nov

18 p 30

Mersinger, J. E., Oct 28 p 52

Metzger, George W., Dec 2 p 34

Meyer, E. E., Sept 2 p 27

Meyer, Edward W., July 15 p 43

Mickelsen, Edward M., July 19 p 39

Middleton, R. W., Aug 19 p 39

Middleton, R. W., Aug 19 p 39

Middleton, R. W., Aug 19 p 39

Mild, F. W., Aug 26 p 64

Milder, Frank C., Dec 23/30 p 37

Miller, Herbert S., Oct 28 p 52

Miller, J. A., Nov 11 p 30

Miller, J. W., Dec 23/30 p 37

Miller, J. W., Dec 23/30 p 37

Miller, S. B., Jr., Dec 23/30 p 37

Miller, William G., Nov 4 p 43*

Miller, William G., Nov 4 p 43*

Miller, E. Sept 2 p 26

Mittimore, D. W., Aug 26 p 64

Mitteer, H. C., Oct 28 p 52

Moe, L. O., July 8 p 33

Moffett, Bernard V., Dec 16 p 46

Moisan, Charles J., July 22 p 34

Molloy, W. T., Oct 7/14 p 157

Monaghan, B. M., July 29 p 63

Moncrief, R. O., Sept 16 p 38

Mondy, J. Sheppard, Jr., Aug 26 p 64

Monroe, H. Allen, July 8 p 32

Montgomery, C., Jr., Dec 28/30 p 37

Monshower, James M., Aug 26 p 62

Moore, G. T., Jr., Oct 28 p 52

Morris, John D., Oct 28 p 52

Morrison, C. W., Dec 2 p 34

Morrisse, Kenneth C., Nov 18 p 27

Morrissey, James P., Oct 7/14 p 156

Morse, James, Oct 28 p 53

Mosher, M. K., Sept 16 p 39

Mueller, E. J., July 22 p 34

Mueller, Robert L., Aug 19 p 39

Mueller, Robert L., Dec 19 p 39

Mueller, Robert L., Dec 19 p 39

Mueller, Robert L., July 22 p 34

Mueller, Robert L., Dec 19 p 39

Mueller, Josep J., Dec 19 p 46

Muntiss, Harold G., Dec 16 p 46

Muntz, Albert A., Aug 12 p 39

Murphy, M. J., Nov 11 p 30

Murphy, Rupert L., July 29 p 9

Murphy, Rupert L., July 22 p 34

Mueller, Josep J., Dec 2 p 34

Mueller, Josep J., Dec 2 p 34

Mueller, Josep J., Dec 2 p 34

Mueller, Josep J., Dec 16 p 46

Muntz, Albert A., Aug 12 p 39

Murphy, H., R., Sept 23 p 50, p 51*

Murphy, H., Gray, Dec 23/30 p 39

Myers, Marvin L., Jr., August 5 p 32

Myles, A. E., Oct 28 p 52

Naffziger, C. A., Oct 7/14 p 29*
Nations, L. H., Sept 2 p 27
Neal, Gordon W., July 8 p 32
Nease, M. W., Sept 2 p 27
Neese, M. W., Sept 2 p 27
Neese, E. M., Nov 18 p 27
Neese, L. M., Nov 18 p 27
Neese, L. M., Nov 18 p 27
Nelsen, L. E., Oct 7/14 p 155
Nelson, Harold M., Dec 9 p 48
Nelson, Herman A., Dec 9 p 47
Newcomb, George, Aug 26 p 64
Newell, James P., Oct 7/14 p 157; Oct 21 p 40
Newsome, E. B., July 8 p 33
Newton, Tarry, Dec 9 p 46
Nickless, Christopher W., Dec 9 p 47
Nicolin, G. L., Sept 2 p 26
Niederriter, Vincent J., Dec 23/30 p 38
Nightingale, G. G., Dec 2 p 35
Nolan, E. L., Aug 19 p 39
Noll, William R., Nov 4 p 43
Noonburg, Frank K., Dec 9 p 46
Noventon, Harry B., July 29 p 63
Norman, Graeme C., Oct 28 p 52
Norman, H. R., Dec 9 p 46
Novak, Emil S., Oct 21 p 37

Oaks, J. C., Dec 2 p 35
O'Brien, Thomas E., Nov 18 p 27
O'Connor, J. F., Oct 7/14 p 156
Ogilvie, C. Leslie, Sept 2 p 27
Oke, Fred W., Oct 21 p 3?
Oliver, William C., Nov 11 p 31
Ollivier, C. C., Dec 23/30 p 37
Olmsted, Robert A., Sept 16 p 40
Olson, Ivan A., Oct 28 p 54
Olson, Wilbur J., Nov 11 p 30
Olynyk, A., July 29 p 62
O'Meara, Ted, Sept 16 p 36
Onken, George M., Oct 21 p 37; Nov 18 p
27e, p 30
Oppenheimer, Robert B., July 22 p 34e, p
35
Orner, Frederick J., Oct 28 p 52e
Orr, W. M., Nov 11 p 30
Osborne, Joseph T., Aug 19 p 38
Osborne, W. J., Oct 7/14 p 27
Otteman, Robert C., Aug 26 p 64
Otwell, O. G., Oct 28 p 54
Owen, H. E., Jr., Nov 18 p 27
Owen, Raymond J., Nov 18 p 27
Owen, Raymond J., Nov 18 p 27
Owen, T. G., Oct 7/14 p 154

Pace, E. J., Oct 7/14 p 156 Page, Howard J., Oct 7/14 p 156 Painter, Tom W., Oct 21 p 37*

Palmer, Arthur C., Sept 9 p 24; Oct 7/14 p 157

Paper, Meyer, Aug 19 p 39

Parker, Philip M., Oct 7/14 p 156

Parker, R. W., July 15 p 43

Parker, William B., Oct 28 p 54

Parker, William B., Oct 28 p 52

Parker, William B., Oct 28 p 52

Parker, William C., Oct 21 p 37

Parker, William C., Sept 30 p 67

Parker, William R., Sept 30 p 67

Parker, William R., Sept 30 p 67

Parker, W. O., Sr., Oct 28 p 52

Pelitesier, Edward A., Oct 21 p 28*

Pember, R. W., July 15 p 43; July 22 p 34

Pepper, Alex M., Nov 18 p 27

Peppiat, Guy S., Dec 23/30 p 39

Peppia, Richard A., July 28 p 64

Perkins, Carl R., Nov 18 p 30

Pertman, A. E., Sept 2 p 7

Peterson, William H., Beyt 30 p 65

Peterson, A. W., Nov 18 p 27

Peterson, Harold A., July 22 p 34

Peterson, A. W., Nov 18 p 27

Peterson, Kenneth H., Dec 2 p 35

Peterson, A. W., Nov 18 p 27

Peterson, W. K., Dec 23/30 p 38

Pevier, Herman H., Aug 19 p 9*; Oct 28 p 52; Nov 4 p 43

Pitter, Joseph J., Sept 9 p 21

Philan, J. G., Aug 12 p 39

Pitter, Orseh J., Sept 9 p 21

Philan, J. G., Aug 12 p 39

Pitter, Carlad H., Oct 28 p 53

Pitter, Joseph J., Sept 9 p 27

Pickett, James C., Nov 11 p 30

Pickett, James C., Nov 11 p 30

Piter, W. J., Oct 21 p 37

Pitts, R. C., Aug 19 p 38*

Platt, Harry H., Nov 25 p 104

Polick, W. F. H., Nov 18 p 27

Potock, James C., Nov 11 p 30

Piter, W. J., Oct 21 p 37

Potter, Joseph J., Sept 30 p 31

Poves, Joseph F., Oct 28 p 53

Povelle, C. F., Nov 18 p 27

Potockett, James C., Nov 11 p 30

Piter, W. J., Oct 21 p 37

Pitts, R. C., Aug 19 p 38*

Platt, Harry H., Nov 18 p 27

Potocket, James C., Nov 11 p 30

Piter, W. J., Oct 21 p 37

Pitts, R. C., Aug 19 p 38*

Platt, Harry H., Nov 18 p 27

Potockett, James C., Nov 11 p 30

Piter, W. J., Oct 28 p 53

Poverle, J. W., Oct 7/14 p 29*

Portlock,

Quinn, J. T., Sept 2 p 26 Quinn, Joseph M., Sept 9 p 21 Quinn, William J., Nov 11 p 30*

R

Rachels, W. E., Oct 7/14 p 29* Raibany, K. Philip, Sept 9 p 12 Raley, Irving J., Nov 18 p 30 Ramage, J., July 22 p 34 Randall, John R., Aug 5 p 32 Ranney, E. H., July 22 p 34 Rapchak, Stephan C., July 22 p 34 Rash, James H., Sr., July 29 p 63 Rash, Luke, Dec 23/30 p 36 Rasmussen, Robert A., Aug 19 p 39 Rassenfoss, John A., Aug 5 p 32; Sept 2 p 27

Rasmussen, Robert A., Aug 19 p 39 Rassen(oss, John A., Aug 5 p 32; Sep p 27 Rast, John V., Aug 5 p 32 Rawlings, W. H., Nov 18 p 30 Ray, A. L., Oct 28 p 52 Ray, Robert R., Jr., July 29 p 63 Readman, Norman, Dec 9 p 48 Reale, John, Sept 9 p 24 Reaves, Henry L., Oct 7/14 p 158 Reckley, J. M., Aug 19 p 38 Reddick, W. C., Sept 9 p 21 Reece, L. S., Oct 7/14 p 157 Reed, K. T., Dec 16 p 46 Reents, James F., Dec 16 p 46 Reents, James F., Dec 16 p 46 Reents, James F., Dec 16 p 46 Reents, John A., July 15 p 43 Rehr, James F., Dec 23/30 p 39 Reich, G. C., Oct 7/14 p 156 Reichard, William O., July 29 p 64 Reid, Howard C., July 1 p 32* Reilly, John M., Dec 23/30 p 39 Reidt, G. C., Oct 7/14 p 156 Reichard, William O., July 29 p 64 Reid, Howard C., July 1 p 32* Reilly, John M., Dec 23/30 p 39 Reistle, Carl E., Jr., Nov 11 p 30

Bully 1—December 31, 1963

Rentz, J. D., Nov 18 p 27
Renz, Walter A., Dec 23/30 p 38
Repella, George, Sept 30 p 67
Reynolds, James M., Jr., Nov 18 p 27
Rezner, J. D., July 8 p 32
Rener, J. D., Jr., July 8 p 32
Rein, Joseph R., Aug 19 p 39
Rice, Ben F., Dec 16 p 46
Rice, E. H., July 29 p 62
Rice, Frank R., Dec 9 p 46
Rice, Frank R., Dec 9 p 47
Rice, W. Thomas, Sept 9 p 40; Dec 23/30
p 25
Richardson, H. F., Sept 2 p 32; Sept 9 p 24
Rice, W. A., Dec 9 p 47
Rice, W. Thomas, Sept 9 p 40; Dec 23/30
p 25
Richardson, H. F., Sept 2 p 32; Sept 9 p 21
Richer, J. H., Oct 7/14 p 154
Richmond, John A., July 29 p 62
Richer, M. O., Sept 30 p 67
Riddle, J. O., Sept 2 p 28
Rindenour, Lloyd, July 22 p 35
Rissler, Harold D., Sept 16 p 38
Ritter, R. L., Aug 26 p 64
Roberts, Bayaard H., July 8 p 32
Roberts, J. F., Oct 7/14 p 154
Roberts, Joseph W., Jr., Nov 18 p 27
Robinson, Robert A., Oct 28 p 52
Robinson, Walter W., Oct 7/14 p 156
Robisch, E. J., Sept 9 p 21
Robisson, J. G., July 29 p 64
Roddewig, Clair M., Aug 26 p 48; Nov 25
p 104
Roddew, G. W., Aug 19 p 39
Roeder, Charles B., Aug 26 p 46
Rodgers, James E., Dec 23/30 p 38
Rodg, Lester C., Jr., Sept 30 p 65
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 65
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 65
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 65
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 65
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 65
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 66
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 66
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 66
Rolston, F. W., Dec 23/30 p 38
Rod, Lester C., Jr., Sept 30 p 66
Rolston, F. W., Dec 23/30 p 38
Rod, L., Jr., Nov 18 p 30
Rose, John L., Jr., Nov 18 p 30
Rose, John L., Jr., Nov 18 p 30
Rosesau, G. L., Aug 19 p 39
Rozelsky, Michael H., Jr., Oct 7/14 p 156
Russell, J. H., Oct

Saffold, W. H., July 8 p 32
Saggus, W. V., July 8 p 33
Salm, Russell L., Nov 18 p 30
Sandridge, M. E., Sept 2 p 26
Sands, J. V., July 2 p 30
Sandridge, M. E., Sept 2 p 26
Sands, J. V., July 2 p 34
Sasgen, Peter J., Sept 30 p 66
Sassaman, George M., Dec 2 p 35
Saunders, C. L., Jr., July 8 p 73
Saunders, Stuart T., July 1 p 7; July 8 p
33*; July 15 p 10; July 2 p 72; Aug
19 p 9*
Sauter, William A., Aug 26 p 64
Savodnik, R. M., Nov 18 p 30
Sawyer, Edward W., Oct 7/14 p 155
Sawyer,

Schlösser, J. E., Oct 28 p 52
Schlösser, J. E., Oct 28 p 52
Schmalenberger, Frank E., Dec 23/30
Schmidt, George J., July 8 p 33
Schmidt, R. N., Sept 9 p 21
Schmidt, T. E., July 22 p 34
Schomburg, W. K., Oct 28 p 53
Scheryer, R. A., Nov 11 p 30
Schobel, M. G., Nov 18 p 30
Schubeck, L. A., Nov 18 p 30
Schubeck, L. A., Nov 18 p 30
Schubeck, L. A., Nov 18 p 30
Schukei, Leonard M., Aug 26 p 62
Schultz, Orland E., Oct 7/14 p 158, p159*
Schultz, Orland E., Oct 27/14 p 158, p159*
Schultz, Orland E., Oct 28 p 54
Schultz, Orland E., Oct 27/14 p 158, p159*
Schultz, Orland E., Oct 27/14 p 158, p159*
Schultz, Orland E., Oct 28 p 54
S

Shaffer, J. H., July & p 32
Shannon, H. F., July 22 p 34
Shapiro, S., Nov 18 p 30
Sharp, J. Hansford, Oct 28 p 53
Sharpe, H. W., Dec 23/30 p 37
Shave, H. W., Dec 23/30 p 37
Shave, Bobby J., Dec 16 p 46
Shearouse, E. B., Aug 5 p 32
Sheffield, W. T., Nov 25 p 102
Shellenbarger, L. R., Oct 28 p 52
Shellenbarger, L. R., Oct 28 p 52
Shepard, Norman C., Dec 9 p 46
Sheppard, William L., Sept 16 p 39
Sheriff, Charles V., Nov 4 p 43
Sherrian, H. B., Jr., Oct 28 p 52
Sherrian, James F., Sept 9 p 24
Sherry, Albert L., Sept 30 p 65
Shidelor, W. H., July 15 p 43
Shirley, Philip H., Sept 2 p 26
Short, F. E., Sept 2 p 32; Sept 9 p 21
Shu, Paul C., July 8 p 33
Shirley, Dec 10, July 8 p 33
Shirley, Walter A., Oct 7/14 p 155
Slegman, Charles G., Nov 18 p 27
Simmons, T. V., Sept 12 p 36
Simpson, Walter W., Jr., July 2p 63
Simpson, Walter W., Jr., July 2p 63
Simpson, Walter W., Jr., July 2p 63
Sike, James N., Dec 23/30 p 40
Skelly, Donald A., Sept 2 p 26
Skidmore, Howard, Nov 18 p 20
Slater, Carlisle R., Nov 11 p 31
Slater, Wilson D., Oct 7/14 p 156; Dec 2
p 34
Small, Robert W., Nov 18 p 27
Smith, Blanchard J., Oct 28 p 25
Smith, Slanchard J., Oct 28 p 25
Smith, Slanchard J., Oct 28 p 25

Stater, Wilson D., Oct 7/14 p 156; Dec 2
p 34
Small, Robert W., Nov 18 p 27
Smith, Blanchard J., Oct 28 p 54
Smith, Claude, July 8 p 33
Smith, Darrell R., Nov 4 p 43
Smith, Floyd R., Dec 23/30 p 38
Smith, Floyd R., Dec 23/30 p 38
Smith, John W., Dec 23/30 p 25
Smith, George M., Oct 28 p 52
Smith, George R., July 22 p 35
Smith, John W., Dec 23/30 p 25
Smith, John W., Dec 23/30 p 25
Smith, John W., Dec 23/30 p 25
Smith, John W., Dec 22/30 p 25
Smith, Louis, Jr., Sept 16 p 38
Smith, M. F., Jr., Oct 21 p 37
Smith, N. E., Aug 19 p 38; Oct 28 p 52
Smith, N. E., Aug 19 p 38; Oct 28 p 52
Smith, N. E., Aug 19 p 38; Oct 28 p 52
Smith, W. Bryant, July 29 p 63
Smith, W. Bryant, July 29 p 63
Smith, W. Bryant, July 29 p 63
Smith, W. L., Sept 2 p 27
Smith, William H., Oct 28 p 54
Smith, William H., Oct 28 p 54
Smith, William J., Sept 30 p 67
Smock, Kenneth D., Nov 11 p 30
Smucker, David E., Sept 30 p 7; Oct 7/14
p 156*, p 157; Oct 28 p 52
Sneed, N. K., III, July 22 p 35
Snelson, Ray M., Aug 19 p 39
Snow, S. C., Sept 2 p 27
Snoder, W. R., Oct 21 p 37
Solomon, Charles R., Aug 12 p 39
Soltau, D. A., Dec 23/30 p 38
Sommer, Wilfred, Sept 2 p 27
Solowy, James M., Jr., Sept 23 p 50, p
51*; Oct 7/14 p 158, p 159*
Soult, Lyle A., Aug 19 p 39
Spair, Swilfer, Aug 12 p 40
Spanre, Edward O., Nov 11 p 31
Sparrow, Joseph K., Sept 2 p 27
Spears, J. P., Aug 19 p 39
Speirs, Neil P., Aug 12 p 40
Spencer, E. Earl, July 6 p 33*
Spents, William S., Jr., Nov 11 p 31
Springorose, James V., Sept 30 p 67
Stack, M. G., Nov 18 p 30
Standard, C. W., Aug 26 p 64
Stark, B. F., Dec 9 p 48
Stark, B. F., Dec 9 p 48
Stark, B. F., Dec 9 p 58
Steelban, R. M., Dec 23/30 p 38
Stenberg, F. J., Oct 17/14 p 28*
Stelbins, B. E., Oct 28 p 52
Steelban, R. M., Dec 26/30 p 38
Stephens, R.

154 S. S. Sept 8 p 21, Oct 1/14 j 154 Suckling, Arthur O., Aug 12 p 39 Suggs, J. T., Dec 9 p 7 Sullivan, B. H., Jr., Nov 4 p 43 Sullivan, John C., July 29 p 64 Sullivan, R. E., Oct 28 p 52 Sunderland, Edwin S. S., July 29 p 63 Sunter, William D., Nov 11 p 30* Suthann, James H., Sept 2 p 26 Swanson, E. Kenneth, Sept 9 p 21

Swartzlander, Thomas G., Oct 28 p 52 Sweet, Stanley W., Dec 2 p 34; Dec 23/30 p 38 y) 38
Sylvester, D. D., Oct 28 p 52
Sylvester, I. I., Nov 11 p 31
Symes, James M., July 1 p 7; July 8 p 33;
Oct 7/14 p 191 yl y 1 p 7; July 8 p 33;
Symmank, B. C., Jr., Aug 19 p 39
Symons, W. E., July 22 p 34

T

Taggart, William W., Sept 9 p 24
Tambke, Clarence, July 22 p 34
Tate, Donald L., Aug 12 p 39
Tathan, C. C., July 29 p 64
Tatum, A. S., Oct 7/14 p 155
Taubar, R. A., Nov 4 p 43
Tauer, J. A., Oct 7/14 p 155
Taubar, R. A., Nov 4 p 43
Tauer, J. A., Oct 7/14 p 29*
Taylor, C. Lester, July 8 p 32
Taylor, Gerry, Sept 16 p 38
Taylor, Robert E., July 8 p 32
Taylor, T. M., Jr., July 22 p 34
Taylor, W. C., Oct 7/14 p 155
Teasley, William H., Aug 5 p 32
Tedesco, George A., Nov 18 p 30
Tench, Rudolph C., Dec 9 p 46
Tenney, Glenn G., Nov 11 p 31
Terry, James L., Aug 19 p 38
Tesnow, Arthur M., Dec 23/30 p 39
Theohar, T. A., Oct 7/14 p 156*, p 157
Thoemke, R. W., July 8 p 33
Thomas, Curry E., Aug 19 p 38
Thomas, Curry E., Aug 19 p 38
Thomas, J. H., Oct 21 p 37
Thompson, C. W., Aug 19 p 39
Thompson, G. W., Aug 19 p 38
Thompson, G. W., Aug 19 p 38
Thompson, M. E., July 22 p 35
Thompson, Raymond C., Dec 2 p 34
Thompson, Raymond C., Dec 2 p 34
Thompson, T. B., Aug 19 p 38
Thompson, M. H., July 15 p 43
Thompson, W. E., Oct 28 p 53
Thompson, W. H., July 15 p 43
Thompson, W. H., July 15 p 43
Thompson, Samuel A., Oct 7/14 p 159
Thompson, M. H., July 15 p 43
Thomson, M. L., Aug 19 p 39
Thompson, Samuel A., Oct 7/14 p 159
Thompson, Samuel A., Oct 7/14 p 159
Thomson, Samuel A., Oct 28 p 52
Trease, C. C., Oct 7/14 p 156
Trudeau, David L., Dec 23/30 p 39
True, Joe W., Aug 19 p 38
Tucke, E. F., Aug 19 p 38
Tucke, E. F., Aug 19 p 38
Tucke, E. F., Aug 19 p 38
Tucker, William H., July 29 p 9*
Tuly, Budy 20 p 156
Turner, C. C., Oct 7/14 p 156
Trudeeu, David L., Dec 23/30 p 36*
Turner, C. C., Oct 7/14 p 156
Turner, C. C., Oct 7/14 p 156
Turner, William H., July 29 p 9*
Tudy, Walter J., Dec 23/30 p 38
Tucker, William H., July 29 p 9*
Tudy, Walter J., Dec 23/30 p 30
Tues, E. F., Aug 19 p 38
Tucker, William H., July 29 p 9*
Tudy, Walter J., De

Ubben, Walter J., Aug 26 p 62, p 63* Ullery, R. A., Dec 2 p 34 Underwood, Carl P., Aug 26 p 62 Upland, Edwin M., Dec 16 p 46

Vail, Carleton H., Sept 16 p 38
Van Arsdell, Samuel G., Jr., Sept 23 p 50
Van Dellen, E. L., Sept 9 p 21*, p 24
Vander Heyden, Raymond M., Dec 16 p 46
Vandiver, E. M., July 15 p 43
Van Gorkom, J. W., Dec 24/30 p 39
Van Horr, Charles R., Nov 18 p 27
Van Riper, A. W., Oct 28 p 52
Van Slyke, William H., Nov 11 p 30
Van Winkle, E. M., Nov 4 p 43
Veal, John T., Oct 7/14 p 156
Vereen, J. J., Dec 9 p 47
Veronda, Louis D., July 22 p 34
Vey, Robert E., July 29 p 64
Vienne, M. N., July 8 p 33
Viagos, Joseph P., Nov 18 p 27
Vitz, John S., Nov 25 p 102
Vogel, W. J., Oct 28 p 53
Voigt, John R., July 29 p 64
Voth, Karl A., Sept 30 p 86

Wachenfeld, Richard B., Oct 21 p 37
Wachenhut, J. B., Dec 2 p 34
Wadsworth, R. B., Aug 19 p 39
Wagg, John A., Nov 11 p 31
Waggooner, E. F., July 29 p 63
Waggoot, K. M., Oct 21 p 37
Wagner, F. P., Sept 16 p 38
Wales, Raiph P., Sept 30 p 65; Nov 11
p 30
Walker, Henry L., Sept 9 p 24
Walker, J. H., July 15 p 43
Walker, J. H., July 15 p 43
Walker, J. H., July 15 p 48
Walker, J. Manes T., Aug 19 p 38
Walker, M. C., Dec 16 p 46

Walker, Robert W., Dec 23/30 p 39
Wallace, William, Oct 21 p 37
Walrath, Laurence K., July 29 p 9*
Walter, A. W., Dec 9 p 46
Walther, E. A., Oct 28 p 52
Ward, L. E., Sept 2 p 26
Ward, L. E., Sept 2 p 26
Ward, L. E., Sept 2 p 32; Sept 9 p 21
Warren, H. H., Nov 11 p 30
Warren, Raymond L., Dec 16 p 46
Warry, C. Norman, Nov 11 p 30
Warren, Raymond L., Dec 16 p 46
Warry, C. Norman, Nov 11 p 31
Wasko, Andrew J., Dec 2 p 34; Sept 9 p 21
Warren, H. H., Nov 12 p 30
Waver, Nov 18 p 27
Waterworth, V. L., July 22 p 34
Watkins, Hays T., Jr., July 8 p 32*
Weaver, George D., Sept 30 p 66
Weaver, William K., Jr., Dec 9 p 46
Webb, C. E., July 29 p 63
Webb, Charles A., July 29 p 64
Webb, J. W., Jr., July 22 p 34
Weber, William K., Jr., Dec 9 p 46
Webb, J. W., Jr., July 29 p 64
Webster, Walter E., Jr., Aug 5 p 32
Weigel, George K., Aug 19 p 38*
Weinsheimer, Richard H., Nov 18 p 30
Weisenstein, H. N., Sept 2 p 27
Wells, Ivan A., July 15 p 43; Dec 23/30
p 39
Welsch, J. A., Oct 7/14 p 28*
Welsh, Charles E., Sept 9 p 21, p 24
Welty, Charles F., Cot 7/14 p 158
Werner, Gerald J., Aug 26 p 64
West, W. R., Oct 26 p 54
West, W. R., Oct 26 p 54
Westervelt, C. Ellis, Nov 18 p 30
Weth, Arthur M., Dec 2 p 35; Dec 23/30
p 37
Whanger, Edgar M., Dec 9 p 46*
Westervelt, C. Ellis, Nov 18 p 30
Weth, Armer, Jr., Nov 11 p 31
White, J. M., Jr., Sept 2 p 27
White, F. J., Jr., Nov 11 p 31
White, J. M., Jr., Sept 2 p 27
White, Frank J., July 29 p 64
Westervelt, C. Ellis, Nov 18 p 30
Weth, Arthur M., Dec 2 p 35; Dec 23/30 p 33
Weth, Arthur M., Dec 2 p 35; Dec 23/30 p 39
Williams, James R., Aug 26 p 62, p 63*
Wheatley, G. J., Oct 7/14 p 155
Werry, Frank G., Sept 2 p 27
White, J. M., Jr., Sep

Wold, Robert S., Nov 11 p 31

Wolf, Alfred E., Sept 2 p 19; Oct 7/14 p 158

Wolf, P. J., Oct 7/14 p 28*

Wolfe, B. B., Dec 23/30 p 37

Wolfe, J. E., July 8 p 9*; Sept 9 p 7; Sept 23 p 48*

Wolfe, J. Mn. Nov 18 p 27

Wolfe, John P., Dec 16 p 46

Wolfe, L. M., Nov 18 p 27

Wolfe, Marvin W., Aug. 26 p 64

Wollard, J., Nov 11 p 30

Wood, E. S., Sept 2 p 32; Sept 9 p 21

Wood, Lewis A., Oct 7/14 p 154

Wood, William E., Sept 2 p 26*, p 27

Woodburn, James, Jr., July 22 p 35; Aug. 5 p 32

Woods, J. J., Sept 2 p 28

Woods, J. J., Sept 2 p 28

Woods, J. J., Sept 2 p 26

Woods, J. J., Nov 18 p 27

Workman, Douglas C., Oct 28 p 52*

Worthington, Frank S., July 8 p 33

Worthington, Frank S., July 8 p 33

Worthington, Howard, Nov 18 p 31

Wren, Thomas J., July 29 p 62

Wright, Lames O., Dec 23/30 p 39

Wright, R. J., Aug 18 p 38

Wright, William H., Aug 26 p 64

Wright, William H., Aug 28 p 94

Wyatt, Travis D., July 8 p 33

Wyann, R. A., July 8 p 52

Wynne, W. W., Oct 28 p 52

PEOPLE IN THE NEWS-Continued [*Indicates photograph]

Yantz, Francis R., Sept 30 p 67 Yeager, Frank J., Jr., Sept 30 p 65 Yost, R. J., Aug 19 p 39 Young, H. Robert, Oct 7/14 p 154 Young, H. Robert, Oct 7/14 p 154 Younker, Theodore J., Sept 16 p 38

Zanette, D. A., Oct 28 p 54 Zimmerman, William A., Sept 16 p 38 Zuber, Samuel J., Dec 23/30 p 39

OBITUARY

Allison, Alexander, Oct 21 p 37 Appleby, H. A., Nov 11 p 30

Baird, Harry L., Sept 30 p 67 Boese, William G., Sept 30 p 67 Breisacher, E. H., July 8 p 33 Brennan, W. J., Sept 16 p 39; Nov 18 p 30 Brinley, Charles E., July 15 p 43 Brown, W. C., July 26 p 82 Buckingham, Lillian, Sept 9 p 24

Carlin, Bernard J., Nov 18 p 27 Carlson, Edward L., Sept 30 p 67 Chr'' nt, Alexander S., Sept 2 p 27 Cov. y, Edward F., Oct 21 p 37 Craig, Kenneth A., Dec 16 p 46 Cranwell, James L., Nov 11 p 31 Cunningham, John M., Oct 21 p 37

Dickert, Curtis L., Sept 16 p 39 Dillen, John N., Sept 30 p 67 Dunham, James W., Nov 11 p 31

Fleming, A. D., Nov 18 p 30

Fleming, Thomas C., July 15 p 43 Foreman, James R., Nov 4 p 43

Goldowsky, Dr. Ira, Nov 18 p 30 Gramm, William C., Nov 11 p 31 Gravelle, R. A., Oct 28 p 52 Gunlock, V. E., Aug 5 p 32 Gutsch, John C., July 15 p 43

Halleran, George S., Sept 30 p 67; Nov 18 p 30
Hartzog, W. L., Oct 7/14 p 154, p 158
Hawthorne, V. R., Nov 11 p 40
Hedin, H. G., July 8 p 33
Hendrie, Domald A., July 20 p 34; Sept 2 p 27
Hickey, James J., Nov 4 p 43
Hoster, E. W., Jr., Nov 11 p 31

Johnson, Roy L., July 15 p 43

Keller, Harry C., Dec 23/30 p 39 Kerr, Kenneth M., July 29 p 64 Knocke, Hugo, Sept 9 p 24; Sept 16 p 38

Knudson, James K., Oct 21 p 37; Dec 16 p 46 Kottenstette, George G., Dec 16 p 46

LaClair, Darwin J., Aug 26 p 64 Lanham, C. E., Sept 2 p 26 Laud, Sam, Aug 12 p 39

Mauge, Edmund M., Sept 30 p 67 McElroy, Philip F., Sept 9 p 24 McEowen, Herbert H., Nov 18 p 31 McGarry, John J., July 8 p 32 McLeod, John E., July 29 p 64 Morse, Richard C., Sept 30 p 67 Murphy, John E., Nov 11 p 31

Norton, J. Marbry, Oct 21 p 37 O'Connell, Daniel J., Nov 11 p 31 Oliver, M. B., Oct 21 p 37

Pelter, F. P., Aug 19 p 39 Plunkett, Arthur O., Dec 2 p 35

Reilly, G. N., Oct 7/14 p 155 Robertson, Harry P., July 29 p 64 Rockwell, Braman S., July 15 p 43

Savage, Thomas E., Oct 28 p 54 Schuermann, Joseph H., July 29 p 63 Smith, Stanley H., Oct 21 p 37 Stanton, Laurence B., Dec 16 p 46 Stevenson, J. H., Nov 18 p 27; Dec 2

p 34 Stover, Holly, Aug 19 p 39 Sullivan, Eugene P., Sept 30 p 67

Thoresen, George O., Oct 21 p 37 Tornes, Gunnar J., Oct 28 p 54

VanBockern, John J., Nov 11 p 31; Dec 23/30 p 36

Wallace, J. C., Dec 2 p 35 Walton, Norman T., Sept 30 p 67 Weber, Ernest F., Oct 7/14 p 158 Wheeler, Edward W., Nov 11 p 31 Whittaker, R. E., Nov 18 p 27

